JVC

GR-DVX400EG/EK,DVX407EG,DVX507A/EG/EK,DVX509ED

No. 86672

S40894

JVC

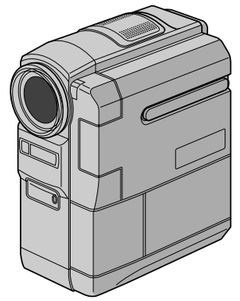
VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVX400EG/EK,DVX407EG, DVX507A/EG/EK,DVX509ED



Mini DV PAL

DSC DIGITAL STILL CAMERA

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVX400,DVX407,DVX507,DVX707)*

Camcorder

For General

Power supply : DC 11.0 V (Using AC Adapter)
DC 7.2 V (Using battery pack)

Power consumption
LCD monitor off, viewfinder on : Approx. 4.5 W (GR-DVX707)/Approx. 3.8 W (GR-DVX507/407/400)
LCD monitor on, viewfinder off : Approx. 5.4 W (GR-DVX707)/Approx. 4.7 W (GR-DVX507/407/400)

Dimensions (W x H x D) : 54 mm x 113.5 mm x 96 mm
(with the LCD monitor closed and the viewfinder pushed back in)

Weight : Approx. 490 g (GR-DVX707/507)
(incl. grip belt)
Approx. 480 g (GR-DVX407/400)
(incl. grip belt)

Operating temperature : 0°C to 40°C

Operating humidity : 35% to 80%

Storage temperature : –20°C to 50°C

Pickup : 1/3.8" CCD (GR-DVX707)
1/4" CCD (GR-DVX507/407/400)

Lens : F 1.8, f = 3.8 mm to 38 mm, 10:1 power zoom lens (GR-DVX707)
F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens (GR-DVX507/407/400)

Filter diameter : ø27 mm

LCD monitor : 2.5" diagonally measured, LCD panel/TFT active matrix system

Viewfinder : Electronic viewfinder with 0.44" black/white LCD

Speaker : Monaural

For Digital Video Camera

Format : DV format (SD mode)

Signal format : PAL standard

Recording/Playback format : Video : Digital component recording
Audio : PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)

Cassette : Mini DV cassette

Tape speed : SP: 18.8 mm/s
LP: 12.5 mm/s

Maximum recording time (using 80 min. cassette) : SP: 80 min.
LP: 120 min.

For Digital Still Camera (GR-DVX707/507 only)

Storage media : SD Memory Card/MultiMediaCard

Compression system : Still image : JPEG (compatible)
Moving image* : MPEG4 (compatible)

File size
Still Image : 3 modes (1280 x 960 pixels*/1024 x 768 pixels/640 x 480 pixels)
Moving Image* : 1 mode (160 x 120 pixels)

Picture quality : 2 modes (FINE/STANDARD)

Approximate number of storable images
: ☞ pg. 50

* GR-DVX707 only

For Connectors

AV
Video output : 1 V (p-p), 75 Ω, analogue
Audio output : 300 mV (rms), 1 kΩ, analogue, stereo

Headphone output (GR-DVX707 only) : Stereo

S-VIDEO : Y: 1 V (p-p), 75 Ω, analogue output
C: 0.29 V (p-p), 75 Ω, analogue output

DV
Input/output (GR-DVX707/507/407 only) : 4-pin, IEEE 1394 compliant
Output (GR-DVX400 only) : 4-pin, IEEE 1394 compliant

USB (GR-DVX707/507 only) : 5-pin

EDIT (GR-DVX707/507 only) : ø3.5 mm, 2-pole

JLIP (GR-DVX407/400 only) : ø3.5 mm, 4-pole

PC (GR-DVX407/400 only) : ø2.5 mm, 3-pole

AC Adapter

For General

Power requirement : AC 110 V to 240 V ∼ , 50 Hz/60 Hz

Output : DC 11.0 V ⎓ , 1.0 A

Specifications shown are for SP mode unless otherwise indicated.
E & O.E. Design and specifications subject to change without notice.

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The following table lists the differing points between Models GR-DVX400EG/EK, DVX407EG, DVX507A/EG/EK and GR-DVX509ED in this serise.

	GR-DVX400EG	GR-DVX400EK	GR-DVX407EG	GR-DVX507A	GR-DVX507EG	GR-DVX507EK	GR-DVX509ED
DV INPUT	NOT USED	NOT USED	USED	USED	USED	USED	USED
EDIT CTL OUTPUT	NOT USED	NOT USED	NOT USED	USED	USED	USED	USED
JLIP TERMINAL	USED	USED	USED	NOT USED	NOT USED	NOT USED	NOT USED
VIDEO FLASH	NOT USED	NOT USED	NOT USED	USED	USED	USED	USED
AC ADAPTER	AP-V12EG	AP-V12EG	AP-V12EG	AP-V12EG	AP-V12EG	AP-V12EG	AP-V12ED
MEMORY CARD	NOT USED	NOT USED	NOT USED	PROVIDED(8MB)	PROVIDED(8MB)	PROVIDED(8MB)	PROVIDED(8MB)
PC CONNECTION CABLE	PROVIDED	PROVIDED	PROVIDED	NOT USED	NOT USED	NOT USED	NOT USED
USB CABLE	NOT USED	NOT USED	NOT USED	PROVIDED	PROVIDED	PROVIDED	PROVIDED
PERI-RCA ADAPTER	PROVIDED	PROVIDED	PROVIDED	NOT USED	PROVIDED	PROVIDED	NOT USED
CONVERSION PLUG	NOT USED	NOT USED	NOT USED	PROVIDED	NOT USED	NOT USED	NOT USED

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape 3) Spacers 5) Barrier
   2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

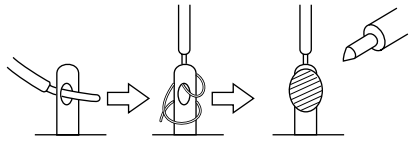


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

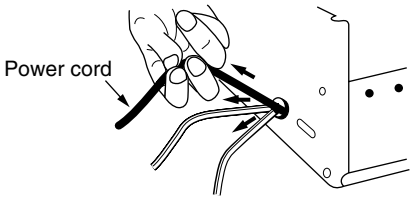


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission.
    Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.
    Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) Connector part number : E03830-001
    2) Required tool : Connector crimping tool of the proper type which will not damage insulated parts.
    3) Replacement procedure
    (1) Remove the old connector by cutting the wires at a point close to the connector.
    Important : Do not reuse a connector (discard it).

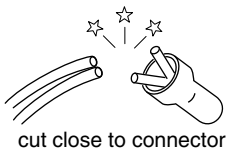


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

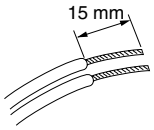


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

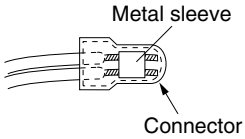


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

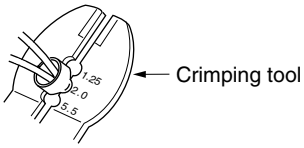


Fig.6

(5) Check the four points noted in Fig.7.

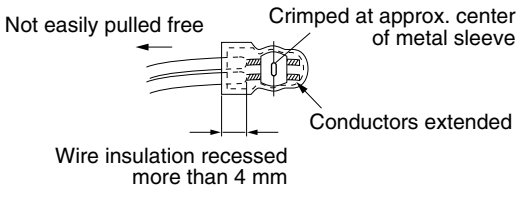

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

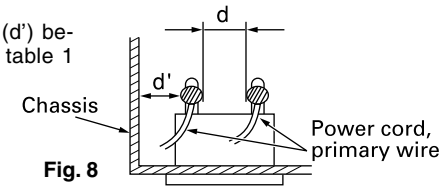


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

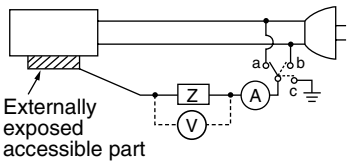


Fig. 9

5. Grounding (Class 1 model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

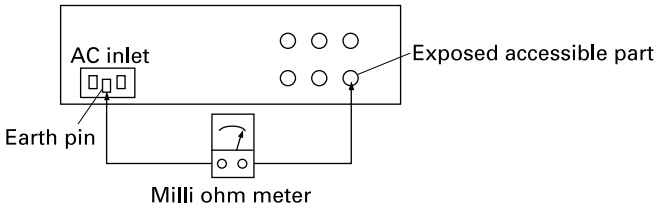


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 BEFORE ASSEMBLY AND DISASSEMBLY

1.1.1 Precautions

1. Be sure to remove the power supply unit prior to mounting and soldering of parts.
2. When removing a component part that needs to disconnect the connector and to remove the screw for removing itself, first disconnect the connecting wire from the connector and then remove the screw beforehand.
3. When connecting and disconnecting the connectors, be careful not to damage the wire.
4. Carefully remove and handle the part to which some spacer or shield is attached for reinforcement or insulation.
5. When replacing chip parts (especially IC parts), desolder completely first (to prevent peeling of the pattern).
6. Tighten screws properly during the procedures.
   Unless specified otherwise, tighten screws at a torque of 0.078N•m(0.8kgf•cm).

1.1.2 Assembly and disassembly

STEP No.	PART	Fig.No.	POINT	NOTE
①	FRONT COVER ASSY	Fig.1-3-1, Fig.1-3-2	(S①a), (S①b), 2(S①c), (S①d), (S①e) (Remove screw No.1 – 6)	NOTE① a NOTE① b NOTE① c
(1)	(2)	(3)	(4)	(5)

(1) Indicate the disassembly steps. When assembling, perform in the reverse order of these steps. This number corresponds to the number in the disassembly diagram.

(2) Indicates the name of disassembly/assembly parts.

(3) Indicates the number in the disassembly diagram.

(4) Indicates parts and points such as screws, washers, springs which must be removed during disassembly/assembly.

Symbol	Name, Point
S	Screw
L	Lock, Pawl, Hook
SD	Soldering
☆(Others)	Connector, Cover, Bracket, etc.

(Example)
- 2 (S①) : Remove the two screws (S①) for removing the part ①.
- CN ①a: Disconnect the connector ①a.
- SD ① : Unsolder at the point SD ①.

(5) Precautions on disassembly/assembly.

1.1.3 Destination of connectors

Note: *Three kinds of double-arrows in connection tables respectively show kinds of connector/wires.*
↔ : Wire
⇔ : Flat wire (FPC, FFC)
⬌ : Board to Board connector

[Example]

CONN. No.	CONNECTOR					Pin No.
CN②a	MAIN	CN103	⬌	JACK	CN501	60
CN②b	MAIN	CN104	⇔	MONITOR	CN761	45/39

1.1.4 Disconnection of connectors (Wires)

Connector
Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

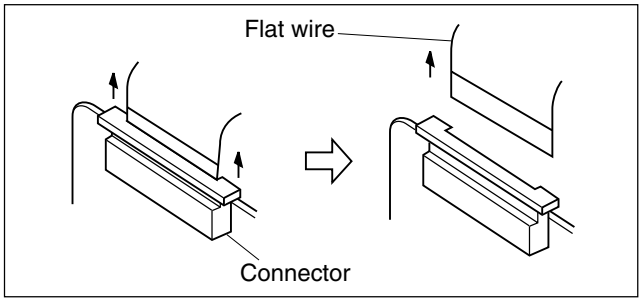


Fig. 1-1-1 Connector 1

Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

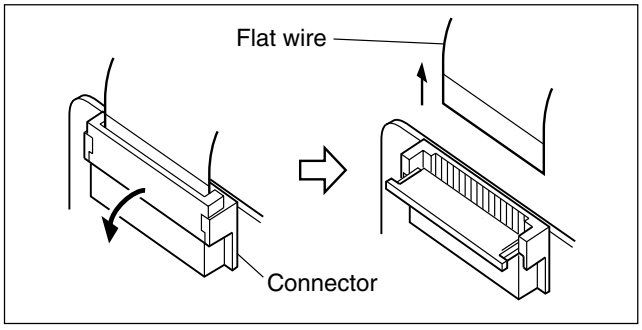


Fig. 1-1-2 Connector 2

B-B connector
Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

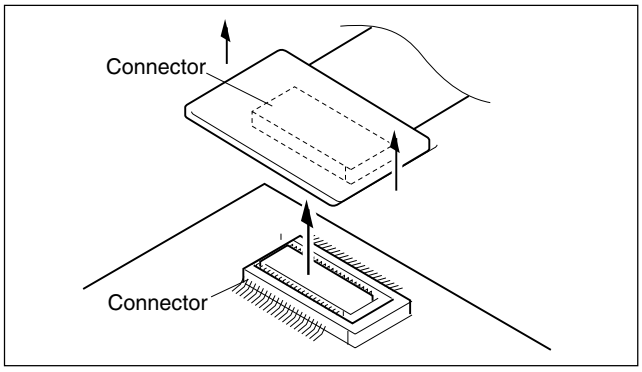


Fig. 1-1-3 Connector 3

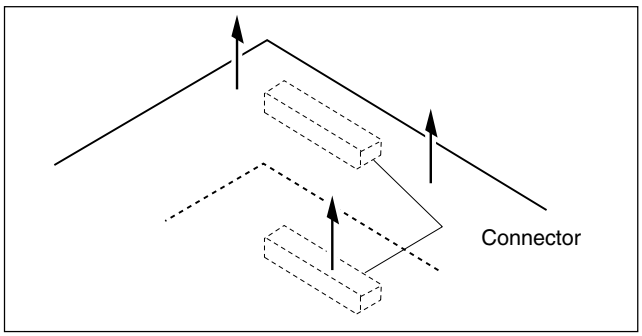


Fig. 1-1-4 Connector 4

1.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

1.2.1 Tools required for adjustments

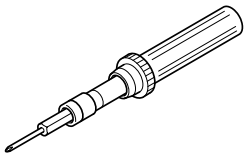
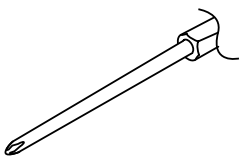
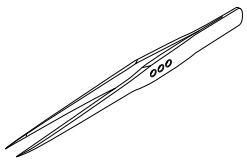
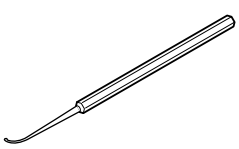
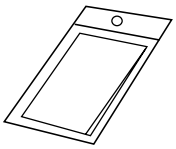
1 Torque driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC replacement jig PTS40844-2
	
5 Cleaning cloth KSMM-01	
	

Table 1-2-1

1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.
5. **Cleaning cloth**
   Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.3 DISASSEMBLY/ASSEMBLY OF CABINET PARTS AND BOARD ASSEMBLY

1.3.1 Disassembly flow chart

This flowchart indicates the disassembly step for the cabinet parts and board assembly in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in reverse order.

①	FRONT COVER ASSY
② / ③ / ④	UPPER CASE ASSY (Incl MONITOR ASSY) COVER (DV) COVER (JACK)
⑤	MONITOR ASSY
⑥	TOP COVER ASSY (Incl MIC UNIT)
⑦	LOWER CASE ASSY (Incl OP BLOCK ASSY / E.VF ASSY)
⑧	OP BLOCK ASSY
⑨	OP BRACKET
⑩	E.VF ASSY
⑪	AUDIO BOARD ASSY
⑫	MDA BOARD ASSY
⑬	MAIN BOARD ASSY
⑭	MECHANISM ASSY

Table 1-3-1

1.3.2 Disassembly method

STEP No.	PART	Fig.No.	POINT	NOTE
①	FRONT COVER ASSY	Fig.1-3-1, Fig.1-3-2	(S①a), (S①b), 2(S①c), (S①d), (S①e) (Remove screw No.1 – 6)	NOTE① a NOTE① b NOTE① c
② / ③ / ④	UPPER CASE ASSY (Incl MONITOR ASSY) / COVER (DV) / COVER (JACK)		(S②a), (S②b), (S②c), 2(S②d), (S②e), (S②f), CN②a, CN②b (Remove screw No.7 – 13)	NOTE②
⑤	MONITOR ASSY	Fig.1-3-2	2(S⑤) (Remove screw No.14 – 15)	NOTE⑤
⑥	TOP COVER ASSY (Incl MIC UNIT)	Fig.1-3-1	(S⑥a), (S⑥b), (L⑥), CN⑥ (Remove screw No.16 – 17)	
⑦	LOWER CASE ASSY (Incl OP BLOCK ASSY / E.VF ASSY)		5(S⑦), CN⑦a, CN⑦b, CN⑦c, CN⑦d (Remove screw No.18 – 22)	
⑧	OP BLOCK ASSY		2(S⑧), 2(L⑧) (Remove screw No.23 – 24)	NOTE⑧
⑨	OP BRACKET		(S⑨) (Remove screw No.25)	
⑩	E.VF ASSY		(S⑩), CN⑩ (Remove screw No.26)	
⑪	AUDIO BOARD ASSY		3(S⑪) (Remove screw No.27 – 29)	
⑫	MDA BOARD ASSY		(S⑫a), (S⑫b), CN⑫a, CN⑫b, CN⑫c, CN⑫d, CN⑫e (Remove screw No.30 – 31)	
⑬	MAIN BOARD ASSY		(S⑬), CN⑬a, CN⑬b (Remove screw No.32)	
⑭	MECHANISM ASSY		(S⑭a), 2(S⑭b), BRACKET(MECHA) (Remove screw No.33 – 35)	

Table 1-3-2

NOTE ①a: *Open the Monitor to remove the screws 3 and 4.*

NOTE ①b: *Open the Cover (DV) to remove the screw 2 located inside of Cover (DV).*

NOTE ①c: *Open the Cover (JACK) to remove the Front Cover assembly.*

NOTE ②: *Remove the Upper Case assembly to remove the Monitor.*

NOTE ⑤: *Refer to Fig. 1-4-1 for the disassembly methob.*

NOTE ⑧: *Refer to Fig. 1-5-1 for the disassembly methob.*

Note: *Remove the parts marked in* .

CONN. No.	CONNECTOR					Pin No.
CN②a	MAIN	CN103	⬌	JACK	CN501	60
CN②b	MAIN	CN104	⇔	MONITOR	CN761	45/39
CN⑥	AUDIO	CN803	↔	MIC UNIT	—	4
CN⑦a	MAIN	CN101	⬌	AUDIO	CN801	60
CN⑦b	MAIN	CN107	⇔	CCD	—	20
CN⑦c	MAIN	CN108	⇔	OP BLOCK ASSY	—	24
CN⑦d	MDA	CN206	⇔	CAMERA OPE UNIT	—	14
CN⑩	AUDIO	CN802	⇔	E.VF ASSY	CN701	20
CN⑫a	MDA	CN201	⇔	LOADING MOTOR	—	6
CN⑫b	MDA	CN202	⇔	DRUM MOTOR	—	11
CN⑫c	MDA	CN205	⬌	MAIN	CN102	60
CN⑫d	MDA	CN203	⇔	CAPSTAN MOTOR	—	18
CN⑫e	MDA	CN204	⇔	SENSOR	—	15
CN⑬a	MAIN	CN110	⇔	HEAD	—	8
CN⑬b	MAIN	CN106	⇔	ROTARY ENCODER	—	6

Table 1-3-3

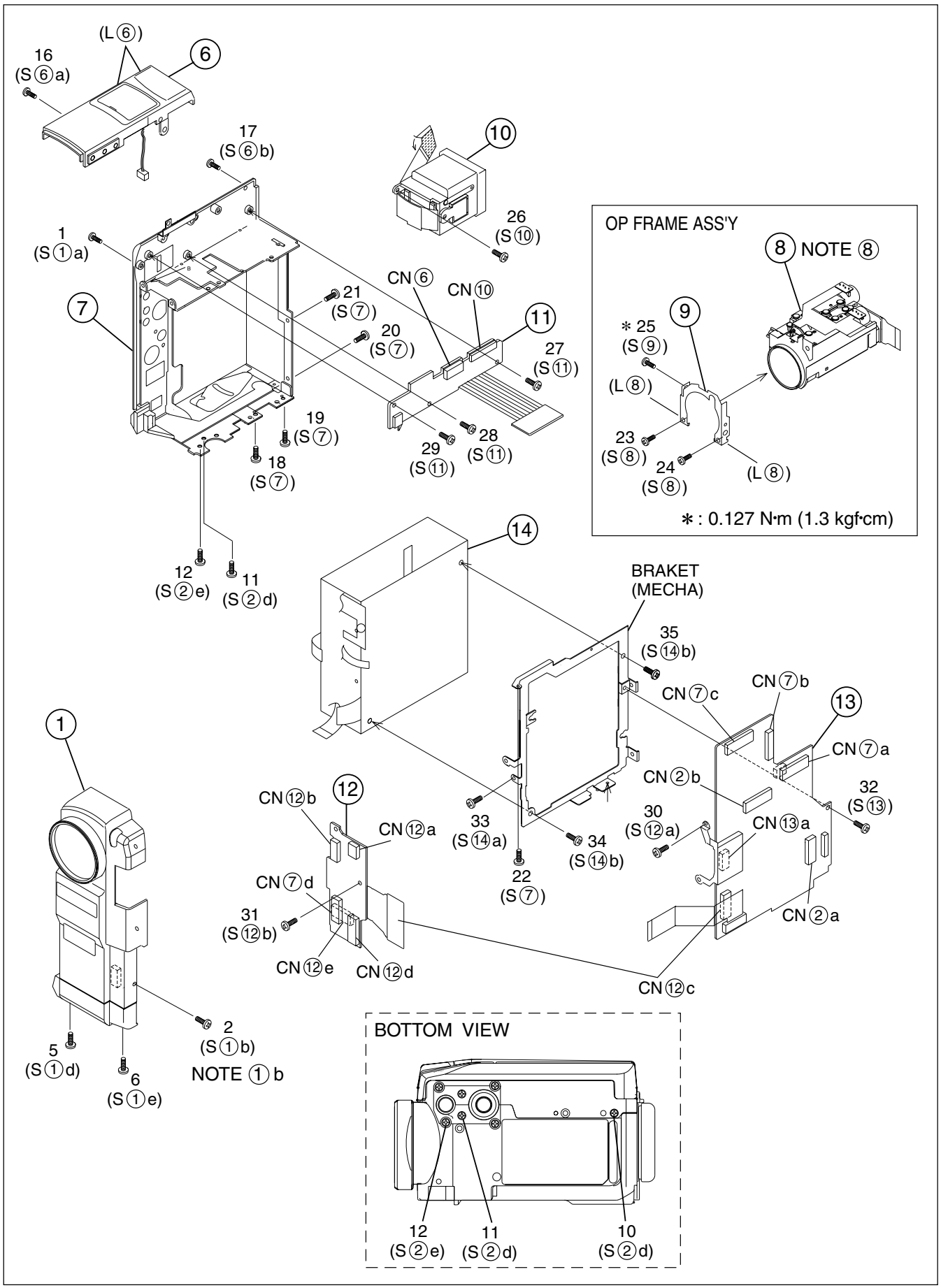

(L ⑥)
16
(S ⑥a)
6
17
(S ⑥b)
10
26
(S ⑩)
1
(S ①a)
7
21
(S ⑦)
20
(S ⑦)
CN ⑥
CN ⑩
11
27
(S ⑪)
19
(S ⑦)
18
(S ⑦)
29
(S ⑪)
28
(S ⑪)
12
(S ②e)
11
(S ②d)
OP FRAME ASS'Y
8
NOTE ⑧
9
* 25
(S ⑨)
(L ⑧)
23
(S ⑧)
24
(S ⑧)
(L ⑧)
* : 0.127 N·m (1.3 kgf·cm)
14
BRAKET
(MECHA)
35
(S ⑭b)
CN ⑦c
CN ⑦b
13
CN ⑦a
CN ②b
32
(S ⑬)
1
CN ⑫b
12
CN ⑫a
33
(S ⑭a)
34
(S ⑭b)
30
(S ⑫a)
CN ⑬a
22
(S ⑦)
CN ⑦d
31
(S ⑫b)
CN ⑫e
CN ⑫d
CN ②a
CN ⑫c
2
(S ①b)
NOTE ① b
5
(S ①d)
6
(S ①e)
BOTTOM VIEW
12
(S ②e)
11
(S ②d)
10
(S ②d)

Fig. 1-3-1

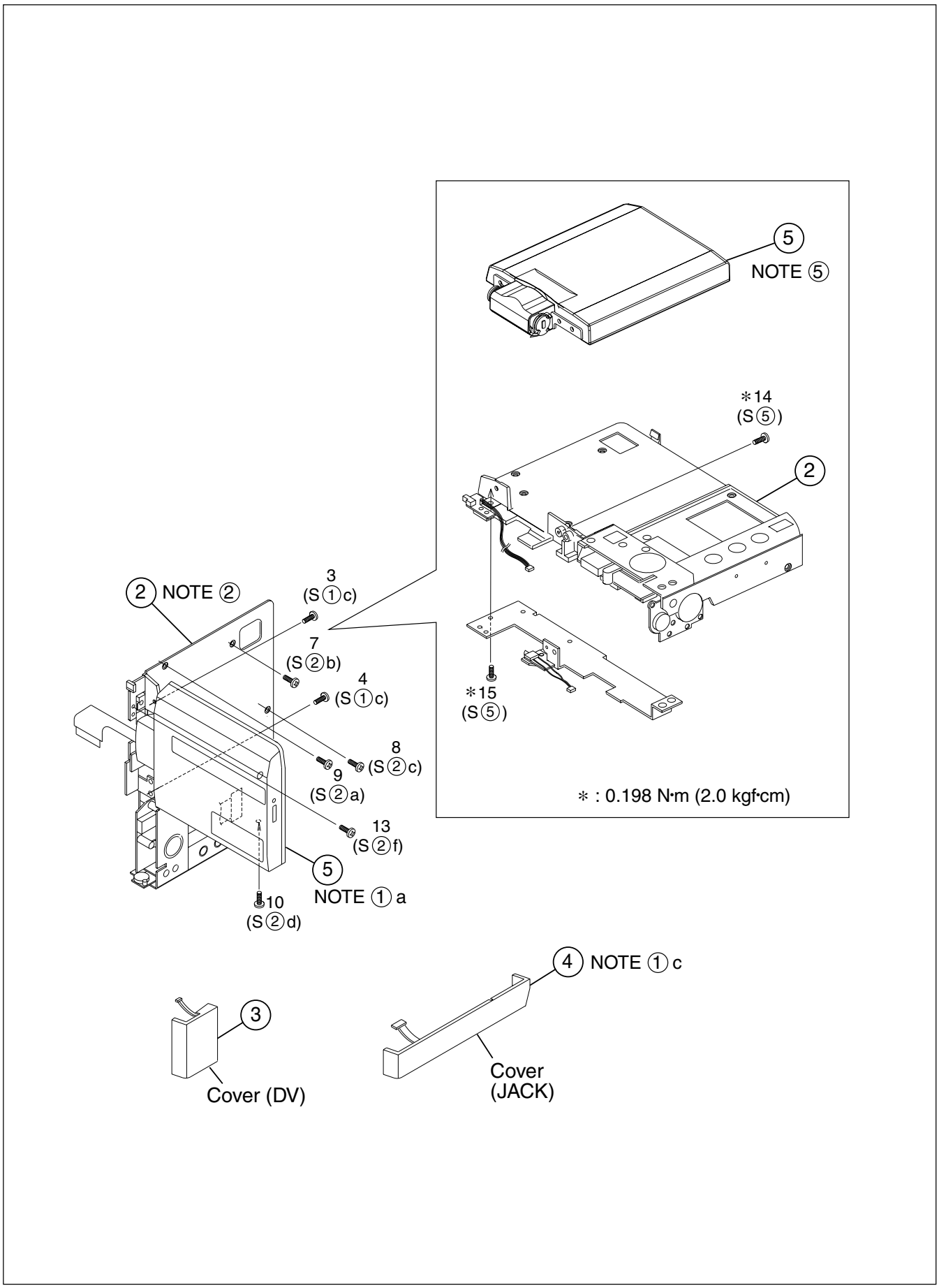

5
NOTE ⑤
＊14
(S⑤)
2
＊15
(S⑤)
＊ : 0.198 N·m (2.0 kgf·cm)
2 NOTE ②
3
(S①c)
7
(S②b)
4
(S①c)
8
(S②c)
9
(S②a)
13
(S②f)
5
NOTE ① a
10
(S②d)
4 NOTE ① c
3
Cover (DV)
Cover
(JACK)

Fig. 1-3-2

1.4 DISASSEMBLY OF ⑤ MONITOR ASSEMBLY

1.4.1 ⑤ Monitor assembly/Hinge assembly

1. Remove the four screws (1-4). While opening the monitor cover assembly as shown by the arrow, release the three hooks (L⑤a, L⑤b, L⑤c) from engagement and remove the monitor cover assembly.
2. Remove the parts out of the monitor case and unlock the connector CN⑤a. While raising the hinge assembly upwards, get the two hooks (L⑤c, L⑤d) disengaged and disconnect the FPC by pulling it out. Then, remove the hinge assembly.

Note⑤a: *When removing the parts out of the monitor case assembly, be very careful not to damage the FPC and parts.*

3. Disconnect FPC from the connector CN⑤b and hook (L⑤e) then remove the MONITOR board assembly and backlight.

Note⑤b: *Remove the MONITOR board assembly and backlight together unless it is needed to separate them from each other for part replacement, etc., because the two are soldered to each other.*

4. Remove the LCD module.

1.4.2 Hinge assembly

1. Remove the two screws (5, 6). While releasing the two hooks (L⑤f, L⑤g) from engagement, remove the hinge cover (U).

Note⑤c: *Be careful not to lose any part during the above-mentioned process.*

2. Draw the FPC assembly out of the hinge cover (L) and then remove the FPC assembly from the hinge assembly.

Note⑤d: *When reassembling, wind the FPC assembly around the hinge assembly by three turns and a half.*

Be careful not to break the FPC wire during the work.

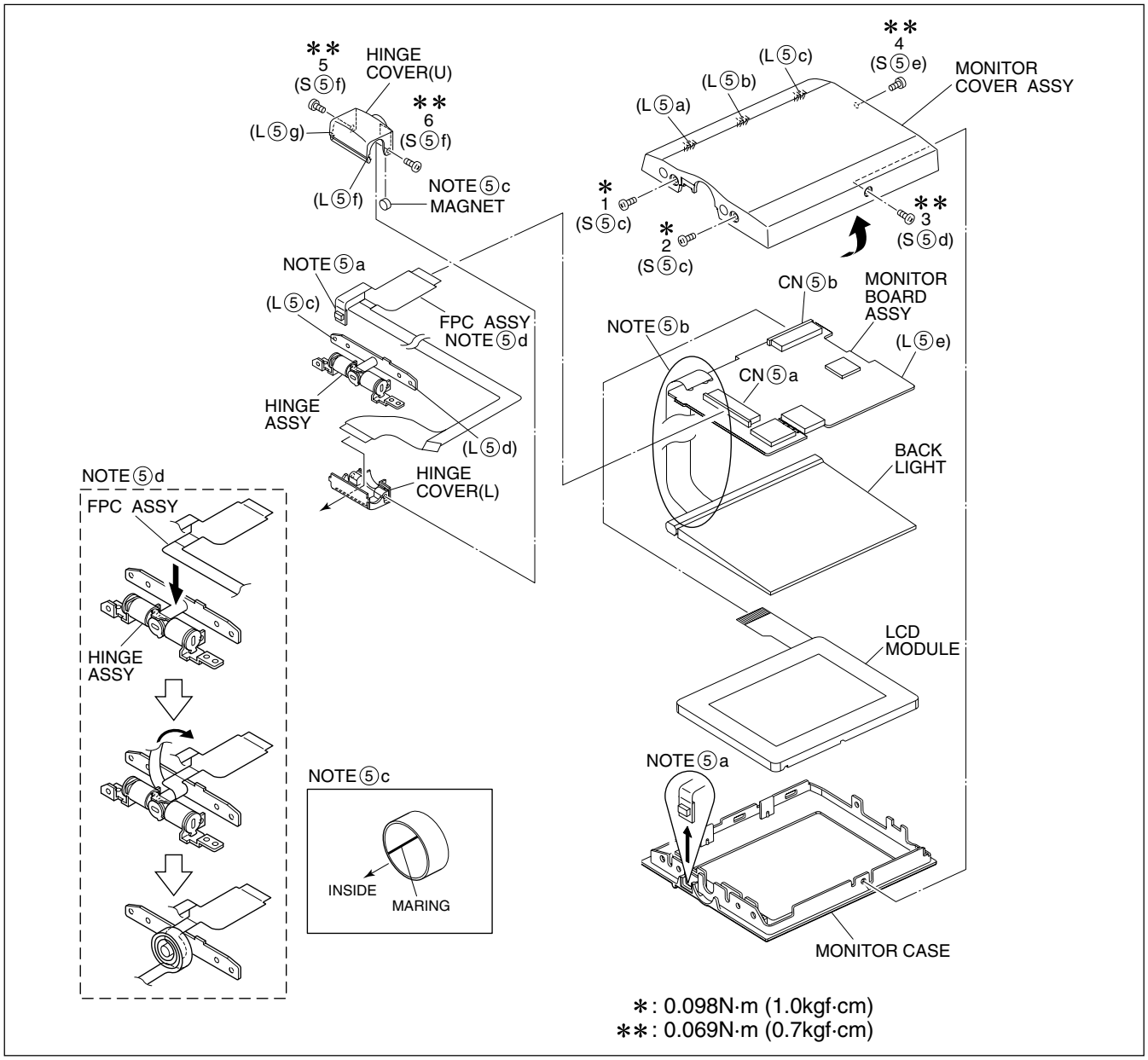


Fig. 1-4-1

1.5 DISASSEMBLY OF ⑧ OP BLOCK ASSEMBLY/CCD BOARD ASSEMBLY

1.5.1 Precautions

1. Carefully handle the CCD image sensor, optical LPF, lens, etc. during the disassembly work. Pay the most careful attention to the surface of those parts not to get it soiled, scratched or dusty. If some of those surfaces gets soiled with fingerprints, etc., wipe it out with silicone paper, clean chamois, cleaning cloth or the like.
2. The new CCD image sensor is occasionally shipped from the factory as a protection seal is applied onto its transparent glass. If so, leave the protection seal as it is and remove it just before installing the CCD image sensor in the OP block assembly.

1.5.2 How to remove OP block assembly and CCD board assembly

1. Unsolder at the fourteen points (SD⑧) and remove the CCD board assembly.
2. Remove the two screws (1, 2) and then remove the CCD base assembly.

Note⑧a: *Carefully remove the CCD base assembly, because the space rubber and optical LPF may be removed together with the CCD image sensor.*

Note⑧b: *When replacing the CCD image sensor, don't replace it individually but replace the CCD base assembly in whole with a new one.*

1.5.3 How to install OP block assembly and CCD board assembly

1. Install the optical LPF with the space rubber fitted to its CCD side in the OP block assembly.
2. Paying heed to the space rubber not to get it to come off the setting position, install the CCD base assembly in place and fasten it together with the space rubber with the two screws (1, 2).
3. Set the CCD board assembly in the CCD base assembly, and fasten it by soldering at the fourteen points (SD⑧).

1.5.4 Replacement of service parts

Service parts to be supplied for the OP block assembly are as follows.
When replacing a part, be very careful not to get the FPC wire broken or damaged by soldering (overheating).

1. Focus motor
2. Zoom motor
3. Iris motor unit

Note⑧c: *When soldering the FPC wire of the focus motor or zoom motor during the replacement work, be sure to keep the tip of a soldering iron approximately 1 mm above the terminal.*

Note⑧d: *The iris motor unit includes one FPC assembly and two sensors.*

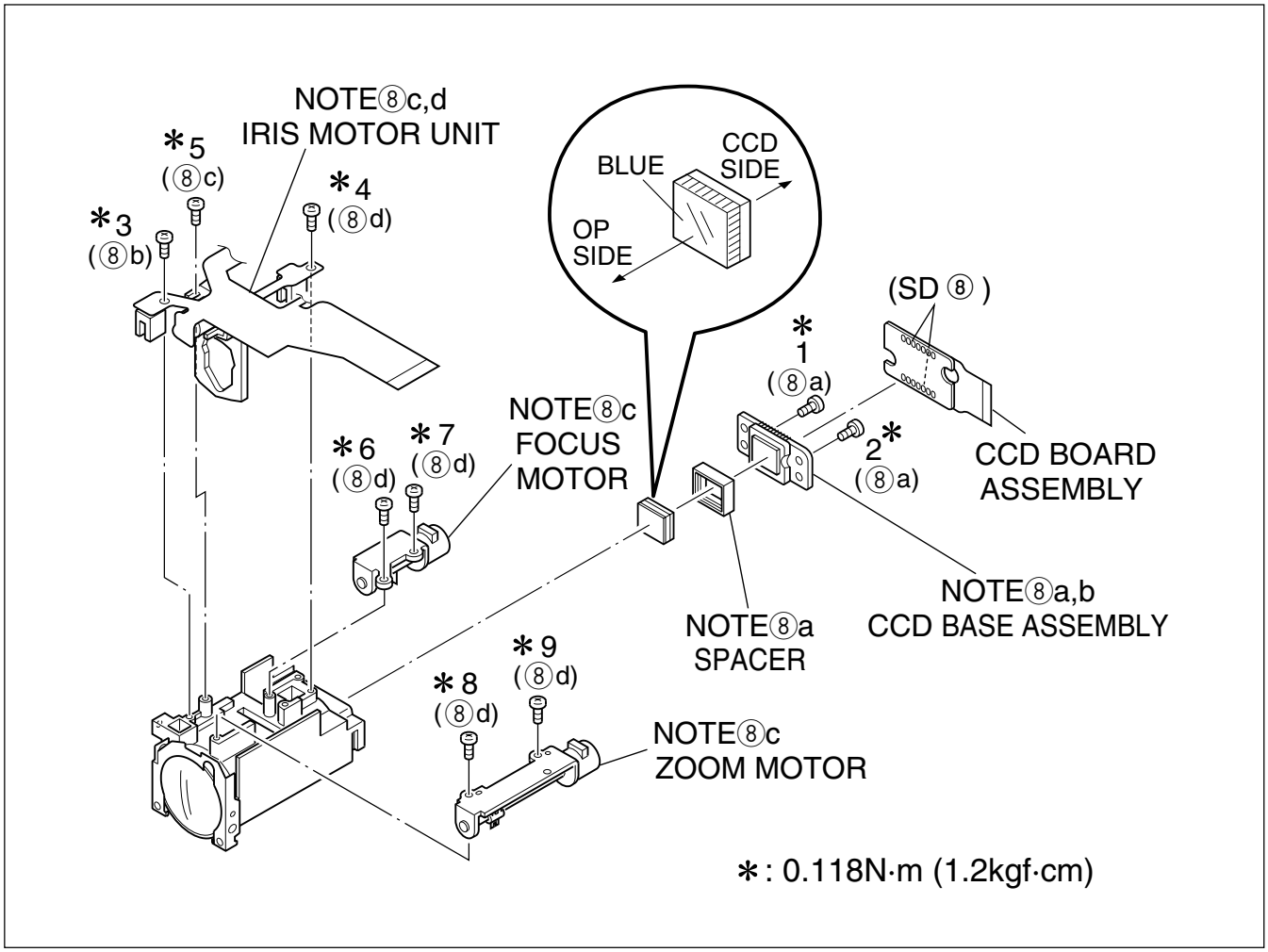


Fig. 1-5-1

1.6 DISASSEMBLY OF ⑩ E. VF ASSEMBLY

1.6.1 ⑩E. VF assembly

Note⑩a: *Be very careful not to get the inside of the VF soiled or dusty during and after disassembling the E.VF assembly.*

1. Remove the three screws (1 to 3) to remove bracket assy and bracket assy(L) and then pull out the holder(VF).
2. Remove the screw (4) and get the hook (L⑩) disengaged and the remove the case(VF) and pull out the tube(VF).

   Note⑩b: *Be careful not to lose the KNOB(VF).*
3. Remove the EYE CUP.
4. Remove the lens assy and pull out the case(VF).

   Note⑩c: *Be careful not to lose the spring(LENS).*
5. Remove the two screws (5,6) to remove holder(LCD) and pull out the holder(VF).

   Note⑩d: *Pay need the parts not to damage anything.*

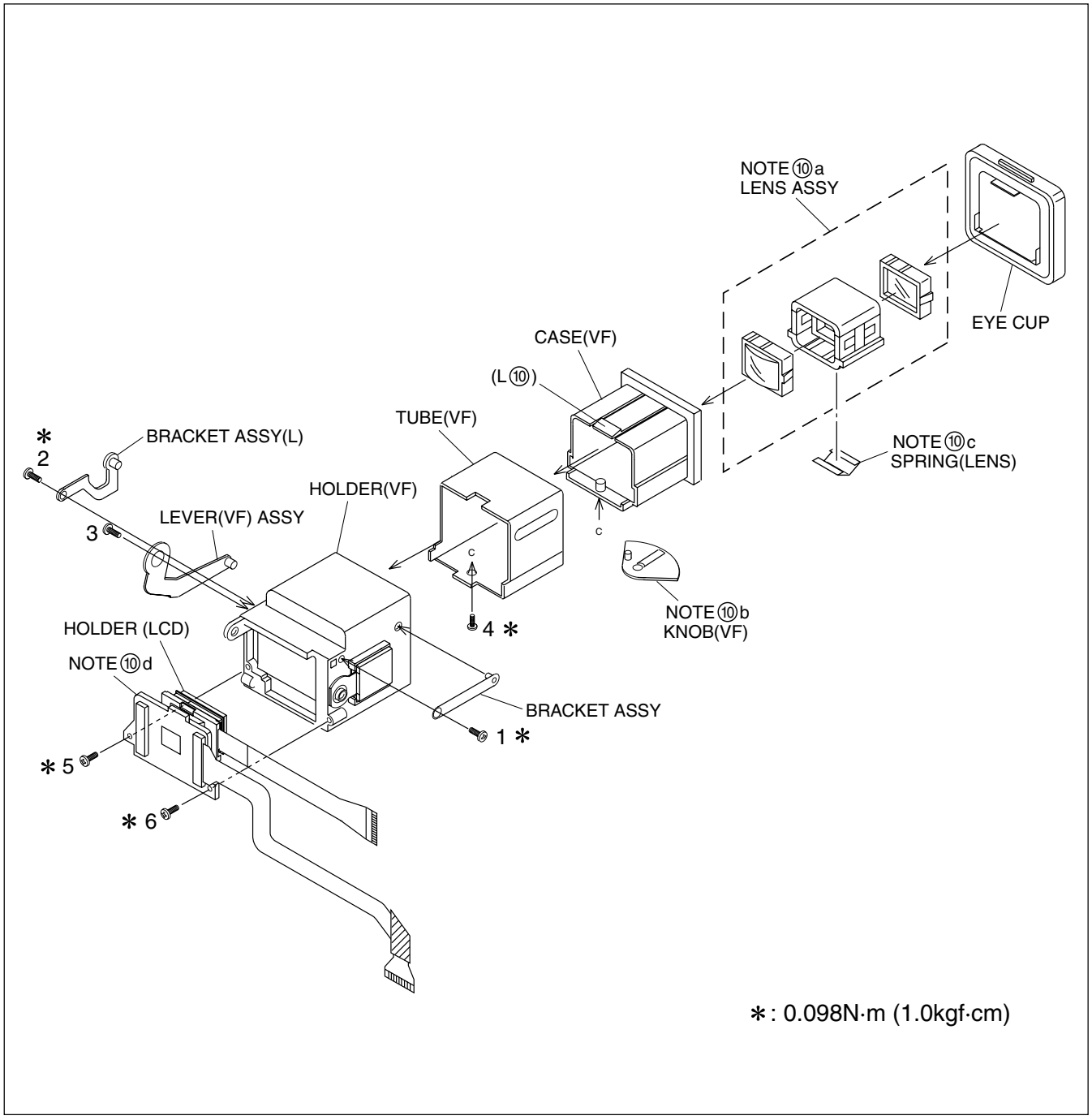


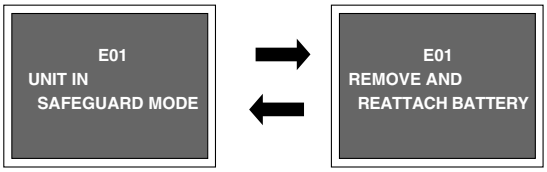
Fig. 1-6-1

1.7 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).
In every error status, such the message as shown below alternately appear over and over.

- In an emergency mode, all operations except turning on/off the POWER switch are ineffectual.

Example (in case of the error number E01):



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLOW/STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	–	–	–
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

(DVC_03)

Table 1-7-1

Symbol No. →	①						② / ③ / ④							⑤		⑥	
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Place to stick screw →	✻				✻								✻	✻	✻	✻	
Reference drawing →	Fig. 1-3-1, 1-3-2						Fig. 1-3-1, 1-3-2							Fig. 1-3-2		Fig. 1-3-1	
Screw tightening torque →	I													Ⅳ		I	

Symbol No. →	⑦					⑧		⑨	⑩	⑪			⑫		⑬	⑭		
Removing order of screw →	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Place to stick screw →	✻	✻	✻	✻	✻	✻	✻							✻				
Reference drawing →	Fig. 1-3-1					Fig. 1-3-1		Fig. 1-3-1	Fig. 1-3-1	Fig. 1-3-1			Fig. 1-3-1		Fig. 1-3-1	Fig. 1-3-1		
Screw tightening torque →	I					I		V	I									

⑤ MONITOR ASSY						
Removing order of screw →	1	2	3	4	5	6
Place to stick screw →	✻	✻				
Reference drawing →	Fig. 1-4-1					
Screw tightening torque →	Ⅲ		VI			

⑧ OP BLOCK ASSY								
Removing order of screw →	1	2	3	4	5	6	7	8	9
Place to stick screw →									
Reference drawing →	Fig. 1-5-1								
Screw tightening torque →	II								

⑩ E. VF ASSY						
Removing order of screw →	1	2	3	4	5	6
Place to stick screw →						
Reference drawing →	Fig. 1-6-1					
Screw tightening torque →	Ⅲ		I		Ⅲ	

< NOTE >

1) ✻ : Don't reuse the screw, because screw lock bond was applied to them.
2) Pay careful attention to tightening torque for each screw.

I : 0.078N·m (0.8kgf·cm) II : 0.118N·m (1.2kgf·cm) Ⅲ : 0.098N·m (1.0kgf·cm)
Ⅳ : 0.198N·m (2.0kgf·cm) V : 0.127N·m (1.3kgf·cm) Ⅵ : 0.069N·m (0.7kgf·cm)

Table 1-8-1

1.9 HOW TO TAKE OUT CASSETTE TAPE MANUALLY

1.9.1 How to remove cassette tape manually from the set

If the cassette tape is not ejected from the cassette housing because of some electric trouble, it can be removed from the set by the temporary measure that is to turn the loading motor forcibly as mentioned below.
Through the removing work, pay heed to the exterior parts such as the covers, etc. as well as to the cassette tape to get nothing damaged.

<Procedure>

1. Disconnect the power supply (battery or DC cord) from the set.
2. Disconnect the cover (ADJ) from the lower case.
3. Open the front cover.
4. Supply 3 V DC to the terminals (electrodes) on the top of the loading motor to slide the slide deck assembly to the front side, and stop the power supply when both the pole bases are positioned in the unloading status inside the tape. Since the tape remains as it is not wound up at that time, pay careful attention to the tape not to damage it and not to soil it with grease, etc.
   If unloading operation is continued after both the pole bases return to their respective positions inside the tape, the mechanism enters the eject mode and the cassette housing assembly is lifted up. If it occures, the pulled out tape may be caught in the cassette lid and the tape may be resultingly damaged.
5. Turn the center gear assembly with a sharp-pointed thing (chip IC replacing jig, etc.) in the direction of the arrow to wind up the tape. Carefully turn the center gear assembly not to damage the tape.
   If the tape cannot be wound up by turning the center gear assembly, it is thinkable that the idler arm assembly is positioned not to engage with the reel disk assembly. If so, shift the mechanism mode so that the idler arm assembly is correctly engaged with the reel disk assembly. After fine adjusting the engagement, try to wond up the tape is the same manner once more.
   In such the event, it is recommended to shift the idler arm assembly slightly in the loading direction.
6. After confirming that the tape is completely wound up, proceed with unloading operation until the mechanism enters the eject mode. Then, take the cassette tape out of the cassette housing.
7. After removing the cassette tape, check to see if the manually wound part of the tape is not soiled with grease, etc. At the same time, check the mechanism assembly, particularly the tape transport system, whether there is something abnormal or not.

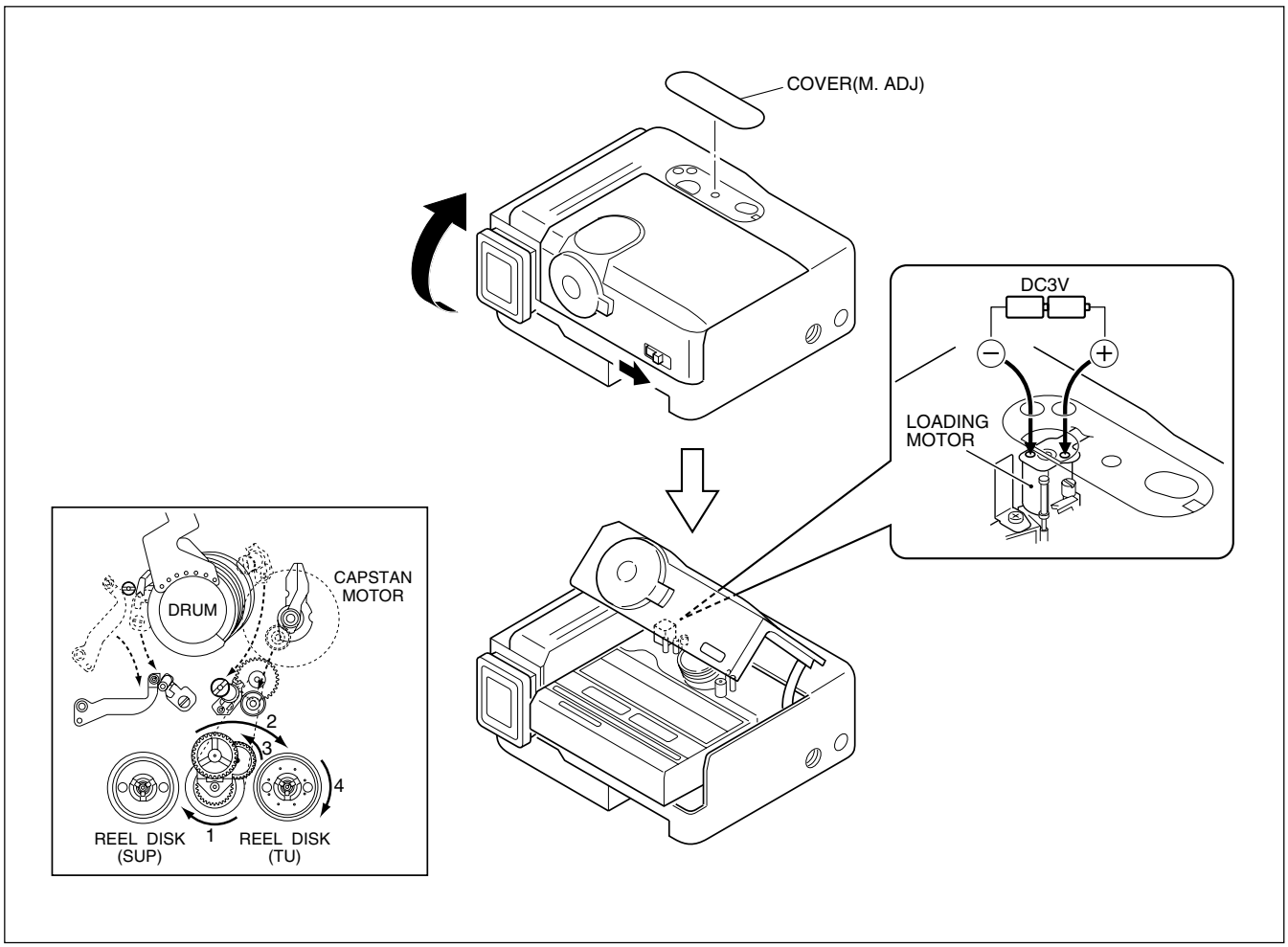


Fig. 1-9-1

SECTION 2
MECHANISM ADJUSTMENT

2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR

2.1.1 Precautions

1. When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.039 N•m (0.4 kgf•cm).
2. Be sure to disconnect the set from the power supply before fastening and soldering parts.
3. When disconnecting/connecting wires, be careful not to get them and their connectors damaged. (Refer to the Section 1.)
4. When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

2.1.2 Notes on procedure for disassemby/assembly

The disassembling procedure table (Table 2-4-1 on page 2-6,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers (circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

(1) Circled numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.

(2) This column shows part names corresponding to circled numbers in the left column.

(3) The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side

(4) Symbols appearing in this column indicate drawing numbers.
Step Part Name Fig. Point Note Remarks

(5) This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN), etc.

Example
- Remove ((W1)=Washer W1.
- **Remove the solder at (SD1)=Point SD1.
- **Disconnect Ⓐ =Connector Ⓐ .

(6) Numbers in this column represent the numbers of notes in the text.For example, “1” means “Note 1”.
(For parts that need phase adjustment after reassembling, refer to “2.6 MECHANISM ADJUSTMENTS”.)

(7) This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
Ⓐ	Cassette housing assembly	T	Fig. 2-4-5	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
2a	Reel disk (SUP) assembly	T	Fig. 2-4-6	(W2)	2a, 2b	
2b	Reel disk (TU) assembly	T		(W2)	2a, 2b	
2c	Reel cover assembly	T		2(S2a),(S2b),(W2)	2d	
3a	Tension arm assembly	T	Fig. 2-4-7	(W3a)	3b	
3b	Release guide assembly	T		-	3a	
3c	Idler arm assembly	T		(W3b)	-	
3d	Guide arm assembly	T		-	3a	
3e	Pinch roller arm assembly	T		(W3a)	-	
4a	Cleaner arm assembly	T	Fig. 2-4-8	(L4a)	4a	
4b	Slant pole arm assembly	T		(W4),(L4b),(P4a),(P4b)	4b	
4c	Drum assembly	T		3(S4)	-	
5a	Guide roller (S) assembly	T	Fig. 2-4-9	(P5)	5a, 5b	
5b	Rail assembly	T		3(W5a), (W5b)	5c	

(1) (2) (3) (4) (5) (6) (7)

2.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

2.2.1 Tools required for adjustments

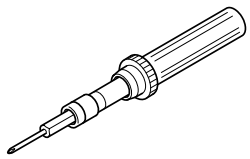
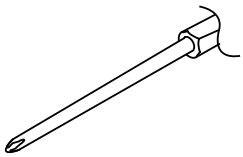
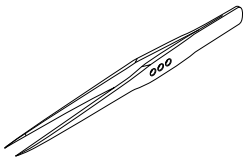
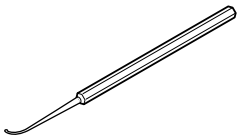
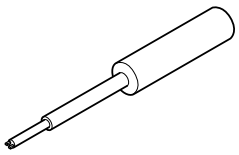
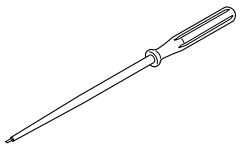
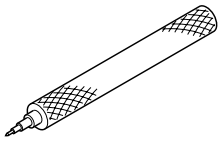
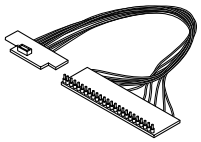
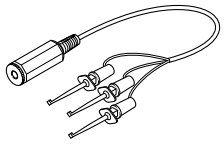
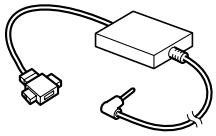
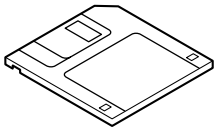
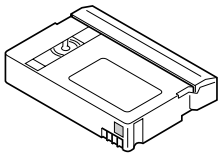
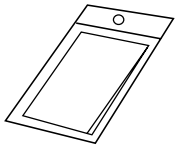
1 Torque driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC Replacement Jig PTS40844-2
	
5 Guide driver YTU94148A	6 Adjustment driver YTU94028
	
7 Slit washer installation jig YTU94121A	8 Jig connector cable YTU93106C
	
9 Extension connector YTU94145D-40	10 Communication cable YTU93107A
	
11 PC cable QAM0099-002	12 Service support system YTU94057-59
	
13 Alignment tape MC-2	14 Cleaning cloth KSMM-01
	

Table 2-2-1

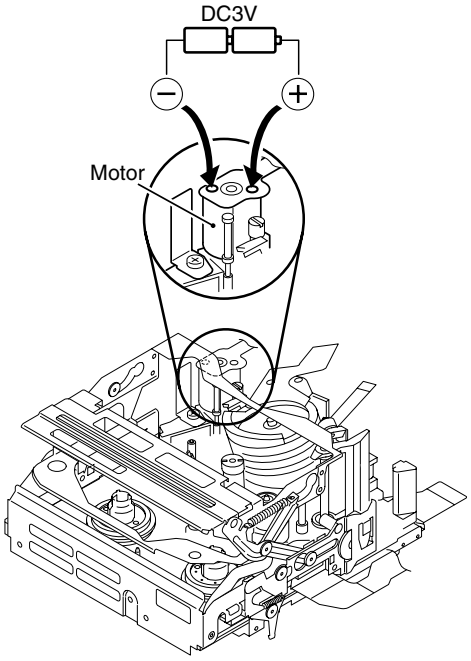
1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.
5. **Guide driver**
   To be used to turn the guide roller to adjustment of the linarity of playback envelope.
6. **Adjustment driver**
   To be used for adjustment.
7. **Slit washer installation jig**
   To be used to install slit washers.
8. **Jig connector cable**
   Connected to CN105 of the main board and used for electrical adjustment, etc.
9. **Extension connector**
   Connect this extension connector to the connector of the Jig connector cable for extending the cable connector.
   Note: *For supplying the power through the coupler by removing the cover (for Jig), use this extension connector double for connecting the Jig connector cable.*
10. **Communication cable**
    Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
11. **PC cable**
    To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
12. **Service support system**
    To be used for adjustment with a personal computer.
13. **Alignment tape**
    To be used for check and adjustment of interchangeability of the mechanism.
14. **Cleaning cloth**
    Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

2.3 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.3.1 General statement

The mechanism should generally be disassembled/assembled in the EJECT mode (ASSEMBLY mode). (Refer to Fig. 2-3-1.)
However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the EJECT mode compulsory.

<Mechanism assembly/Cassette housing assembly>



<Back side of the mechanism assembly>

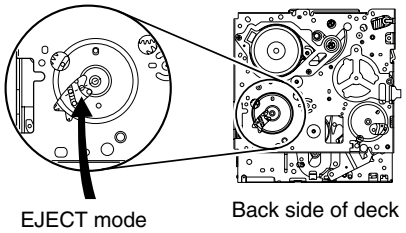


Fig. 2-3-1

2.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into six modes as shown in Table 2-3-1. Each mechanism mode can be distinguished from others by the relative position of "○" mark on the sub cam gear to the inner or outer protrusion on the main deck.
Refer to Fig. 2-3-2 to 2-3-8 below.
The EJECT mode, C IN mode and SHORT FF mode should be recognized by the relative position of the "○" mark to the inner protrusion, while the STOP mode, REV mode and PLAY mode should be recognized by that to the outer protrusion.

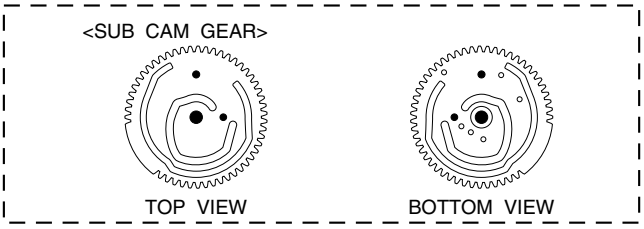


Fig. 2-3-2

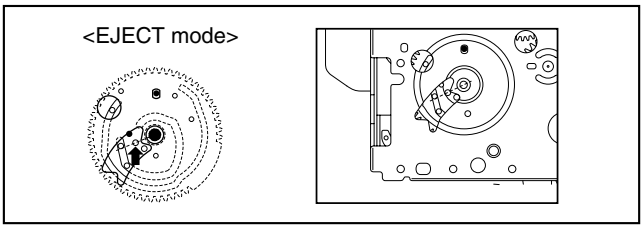


Fig. 2-3-3

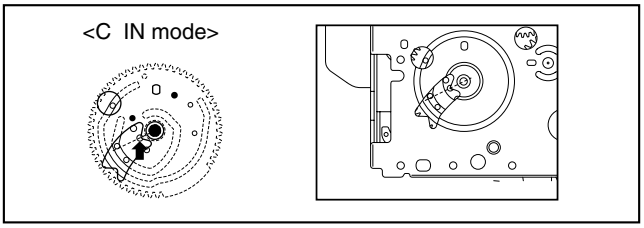


Fig. 2-3-4

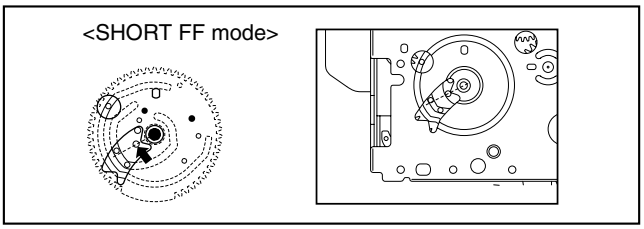


Fig. 2-3-5

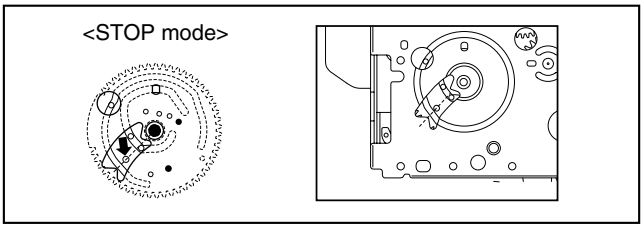


Fig. 2-3-6

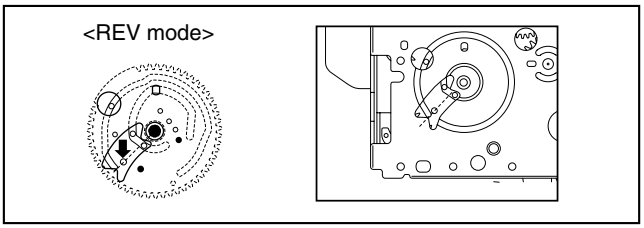


Fig. 2-3-7

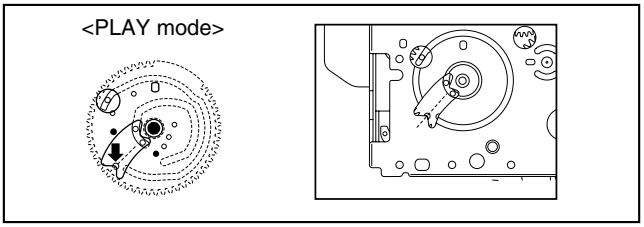


Fig. 2-3-8

2.3.3 Mechanism timing chart

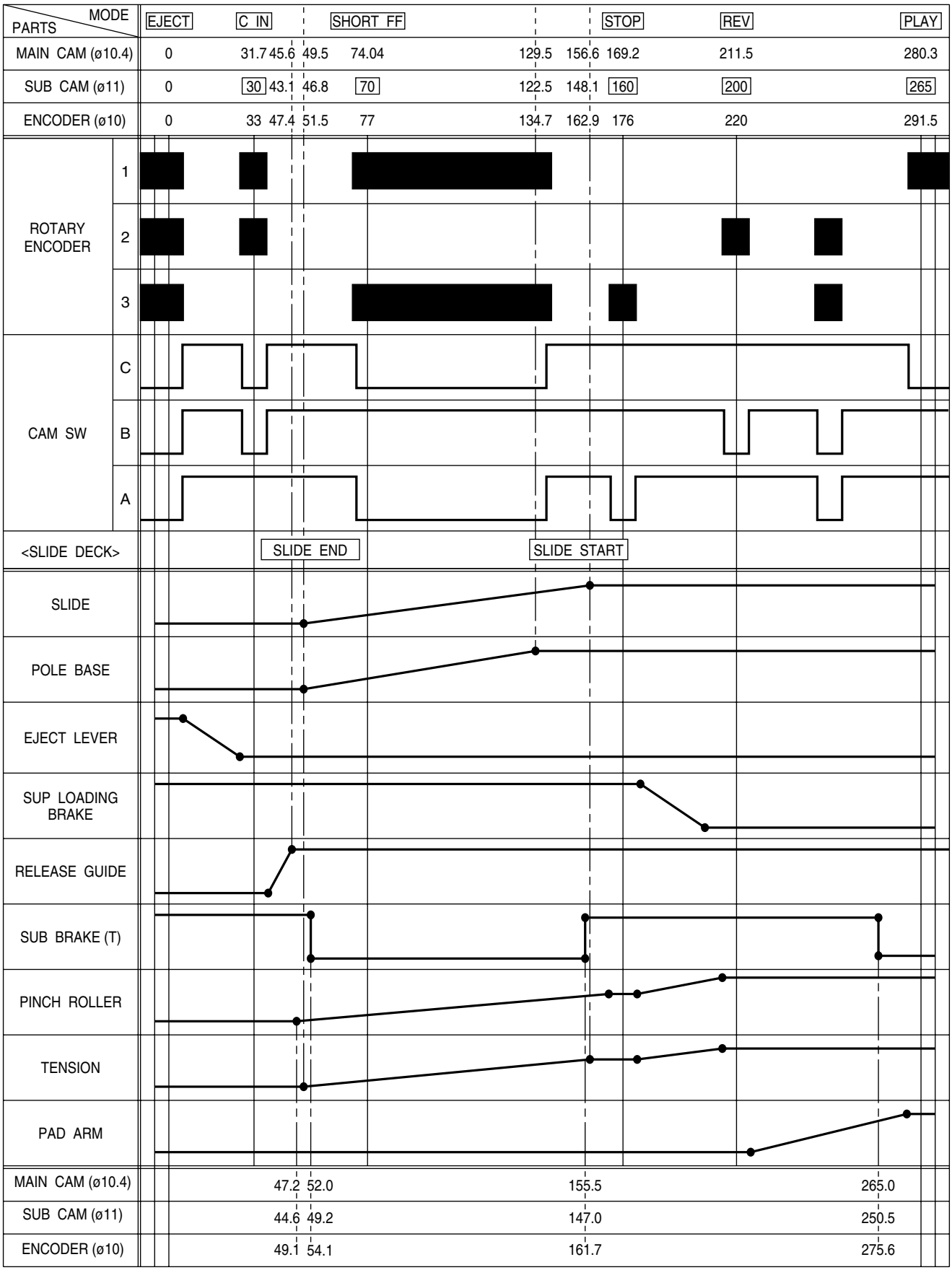


Table 2-3-1

2.4 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.4.1 Follow chart

1. Configuration

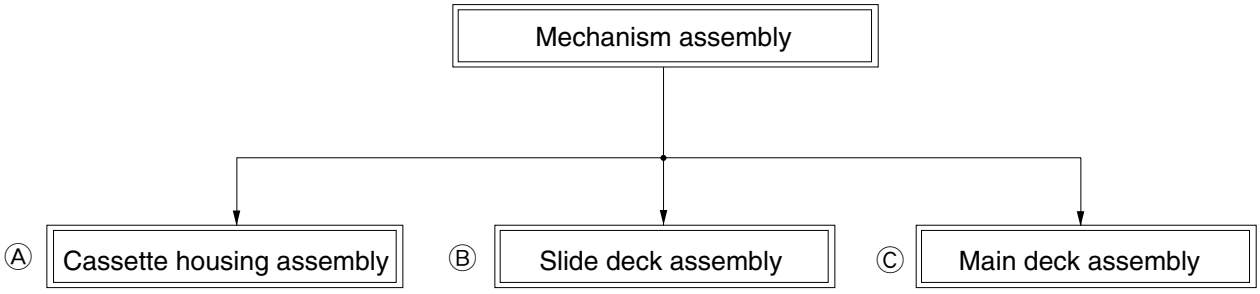


Fig. 2-4-1

2. Procedures for disassembly

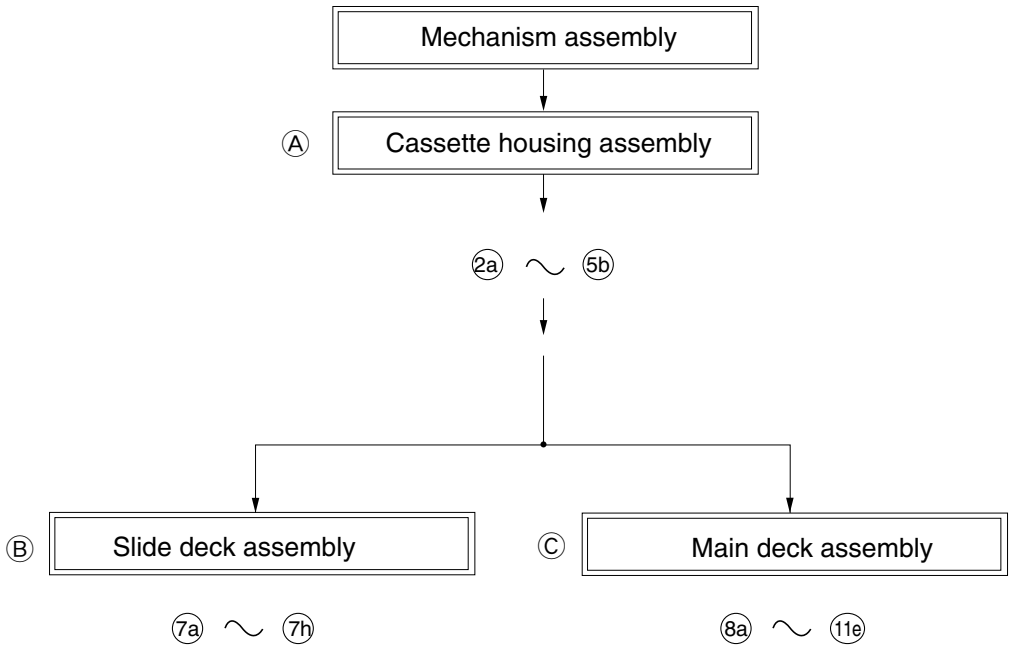


Fig. 2-4-2

3. Disassembling procedure table

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
Ⓐ	Cassette housing assembly	T	Fig. 2-4-5	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
2a	Reel disk (SUP) assembly	T	Fig. 2-4-6	(W2)	2a, 2b	
2b	Reel disk (TU) assembly	T		(W2)	2a, 2b	
2c	Reel cover assembly	T		2(S2a),(S2b),(W2)	2d	
3a	Tension arm assembly	T	Fig. 2-4-7	(W3a)	3b	
3b	Release guide assembly	T		-	3a	
3c	Idler arm assembly	T		(W3b)	-	
3d	Guide arm assembly	T		-	3a	
3e	Pinch roller arm assembly	T		(W3a)	-	
4a	Cleaner arm assembly	T	Fig. 2-4-8	(L4a)	4a	
4b	Slant pole arm assembly	T		(W4),(L4b),(P4a),(P4b)	4b	
4c	Drum assembly	T		3(S4)	-	
5a	Guide roller (S) assembly	T	Fig. 2-4-9	(P5)	5a, 5b	
5b	Rail assembly	T		3(W5a), (W5b)	5c	
Ⓑ	Slide deck assembly / Ⓒ Main deck assembly	T	Fig. 2-4-10	(W6),(L6a)-(L6d)	6a, 6b	(Adjustment)
Ⓑ	Slide deck assembly					
7a	Loading brake assembly	T	Fig. 2-4-11	(W7),(L7a),(P7a)	7e	
7b	Guide pin (S)	T		(S7a)	-	
7c	Pad arm assembly	T		(W7),(L7b),(P7b)	7d	Adjustment
7d	Slide guide plate assembly	T		(S7b)	7c	Adjustment
7e	Collar	T		-	7a	
7f	Collar	T		-	7a	
7g	Sub brake assembly	T		(W7),(L7c),(P7c)	7b	
7h	Control plate assembly	T		2(W7),(L7d),(P7d)	7b	
Ⓒ	Main deck assembly					
8a	Tension lever assembly	T	Fig. 2-4-12	-	8c	
8b	Slide lever assembly	T		-	8b	
8c	Brake control lever assembly	T		-	8a	
9a	Loading guide	T	Fig. 2-4-13	(S9)	-	
9b	Timing belt	T		-	9b	
9c	Center gear assembly	T		-	-	
9d	Motor bracket assembly	T		2(S9)	9a	
9e	Worm wheel	T		(W9)	-	(Phase adjustment)
9f	Gear holder	T		(S9)	-	
10a	Main cam gear	T	Fig. 2-4-14	(S10)	10b	Phase adjustment
10b	Brake control plate	T		(L10)	10b	Phase adjustment
10c	Rotary encoder	T		(S10),(W10a)	10a	Phase adjustment
10d	Connect gear	T		(W10a)	-	(Phase adjustment)
10e	Reel drive pulley assembly	T		(W10b)	-	
11a	Catcher (T) assembly	T	Fig. 2-4-15	2(S11)	-	
11b	Capstan motor	T		2(S11)	-	
11c	Charge arm assembly	T		(W11)	11	
11d	Sub cam gear	T		(S11)	-	Phase adjustment
11e	PWB holder	B		2(S11)	-	

Table 2-4-1

< TOP VIEW >

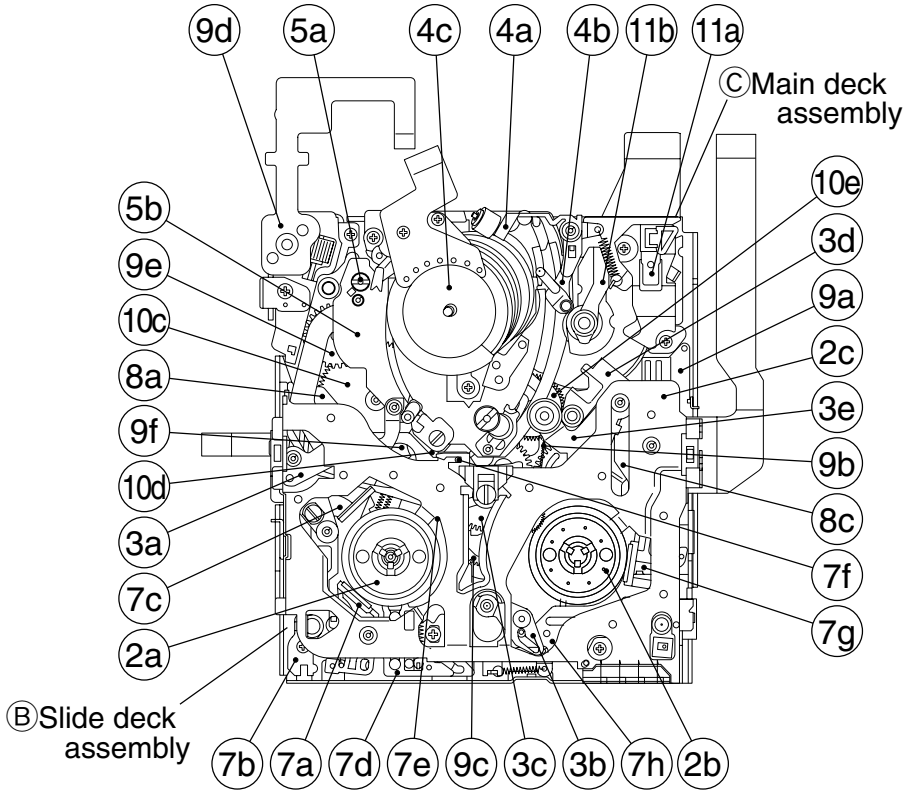


Fig. 2-4-3

< BOTTOM VIEW >

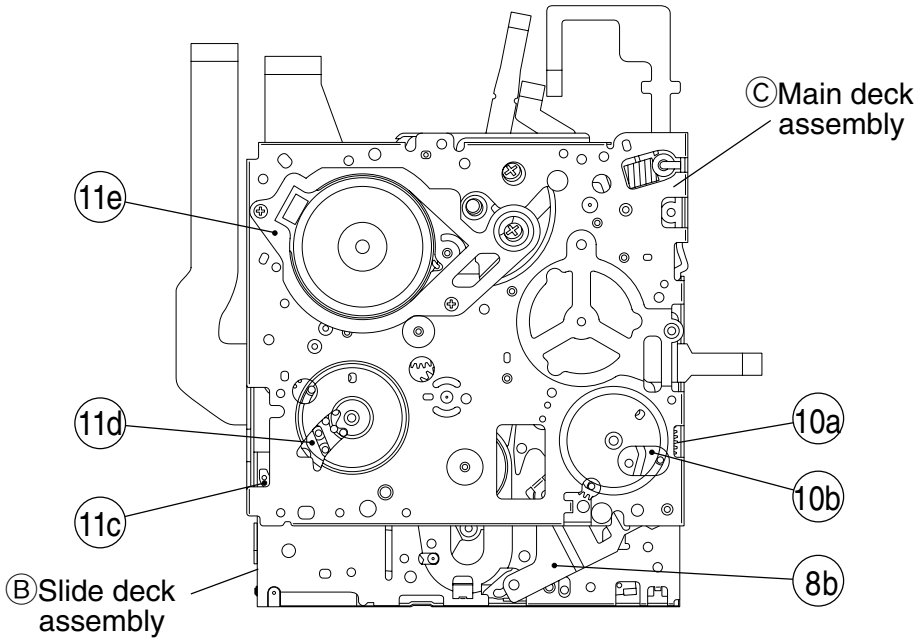


Fig. 2-4-4

2.4.2 Disassembly/assembly

1. Ⓐ Cassette housing assembly

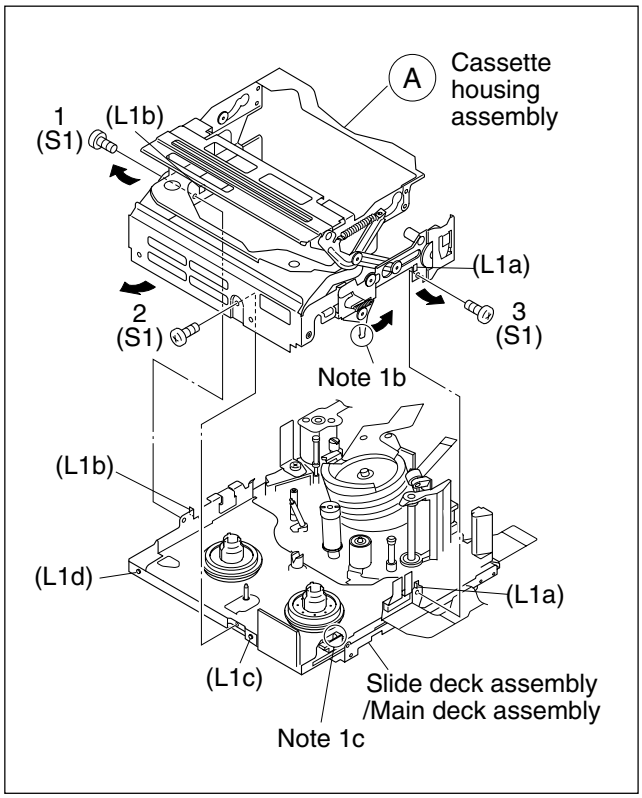
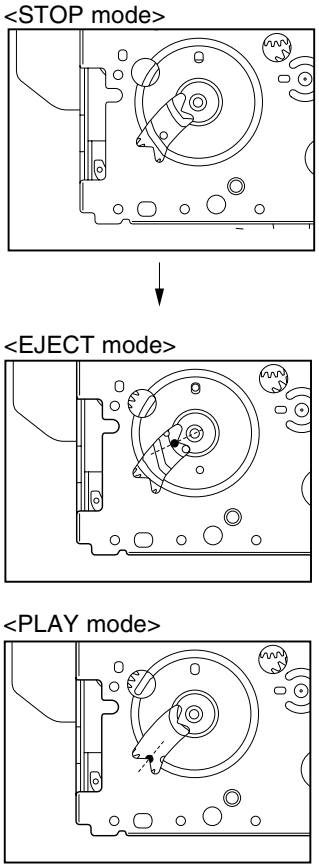


Fig. 2-4-5



Note 1a:
Shift the mechanism mode from the STOP mode to the EJECT mode.

Note 1b:
Reassemble the cassette housing assembly to the mechanism as the cancel lever is moved in the direction of the arrow.

Note 1c:
When reassembling the cassette housing to the mechanism, make sure that there is no deformation in the frame or no damage to the switches, etc.

Note 1d:
After reassembling the component parts, check the mechanism operation in the PLAY mode.
For details of checking method, refer to "2.6.1 assembling slide deck assembly and main deck assembly".

2. (2a) Reel disk (SUP) assembly
(2b) Reel disk (TU) assembly
(2c) Reel cover assembly

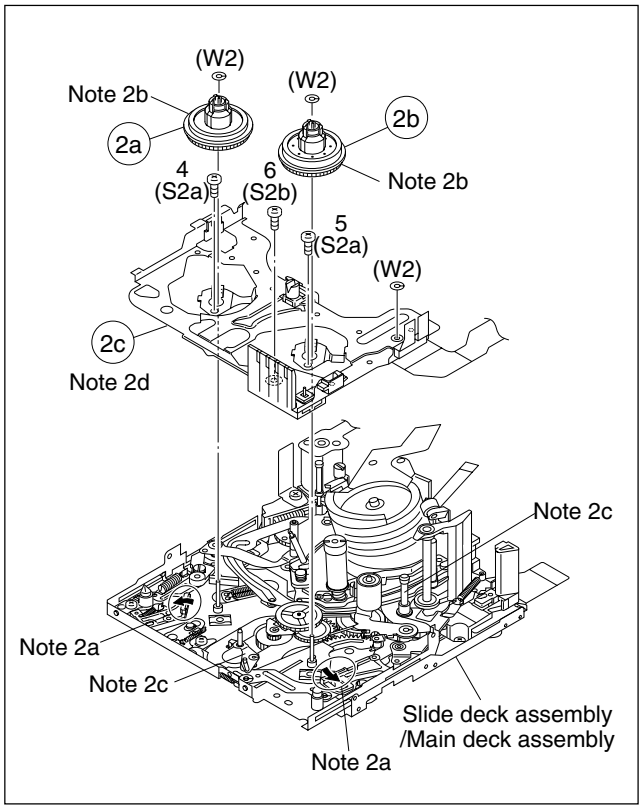
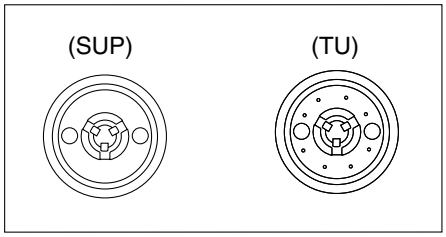


Fig. 2-4-6

Note 2a:
When removing the reel disk assembly, be careful not to break the brake pad which applies lateral pressure to the reel disk.

Note 2b:
Be careful not to make a mistake in installing the reel disk. The SUP reel disk and TU reel disk can be distinguished from each other by the appearance as shown below.



Note 2c:
When reassembling the cassette housing to the mechanism, make sure that there is no deformation in the frame or no damage to the switches, etc.

Note 2d:
When fitting the reel cover assembly to the set, carefully tighten the screw with the specified tightening torque of 0.069N•m (0.7kgf•cm).

3. (3a) Tension arm assembly/ (3b) Release guide assembly (3c) Idler arm assembly/ (3d) Guide arm assembly (3e) Pinch roller arm assembly

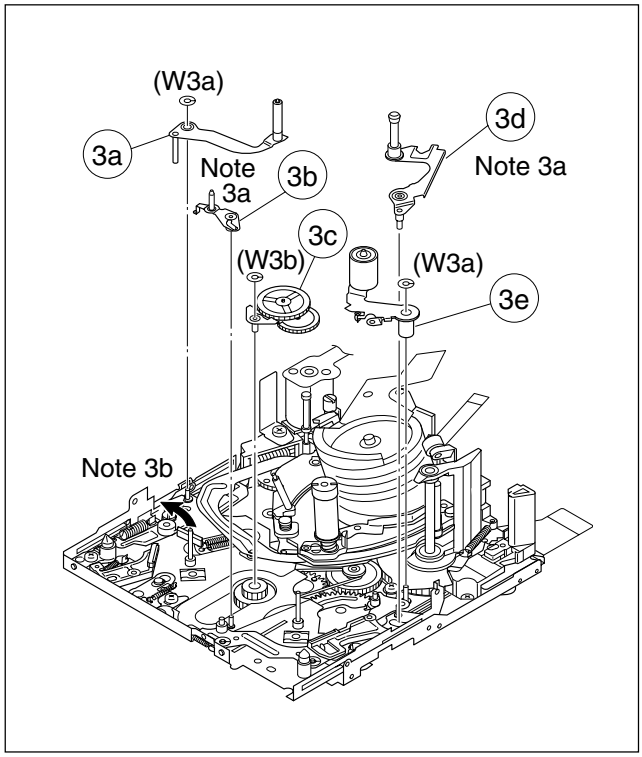
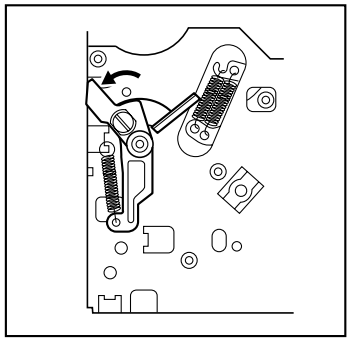


Fig. 2-4-7

Note 3a:
When removing the reel cover assembly, pay heed to release guide assembly and guide arm assembly. For, the guide arm assembly is just inserted into the slide deck assembly from the upside and it is apt to come off after the reel cover assembly is removed.

Note 3b:
Reassemble the tension arm assembly to the mechanism as the pad arm assembly is moved to the extent in the direction of the arrow.



4. (4a) Cleaner arm assembly/ (4b) Slant pole arm assembly (4c) Drum assembly

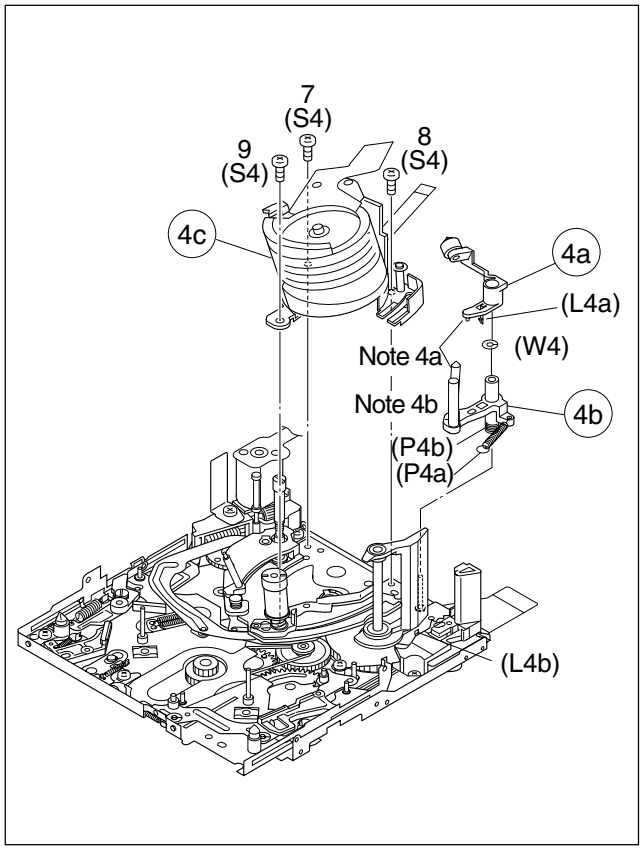
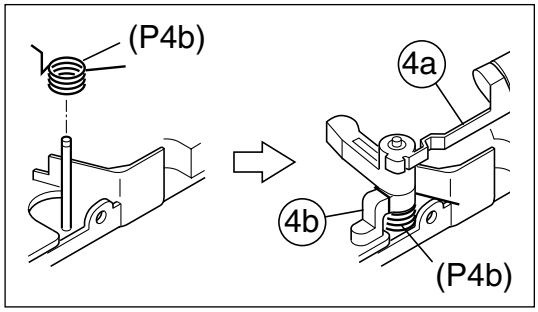


Fig. 2-4-8

Note 4a:
When removing the cleaner arm assembly, it is recommended to remove the slant pole arm assembly together with it except the case of a single unit replacement, because the hook (L4a) is hard to disengage.

Note 4b:
How to set the coil spring (P4b).



5. (5a) Guide roller (S) assembly/ (5b) Rail assembly

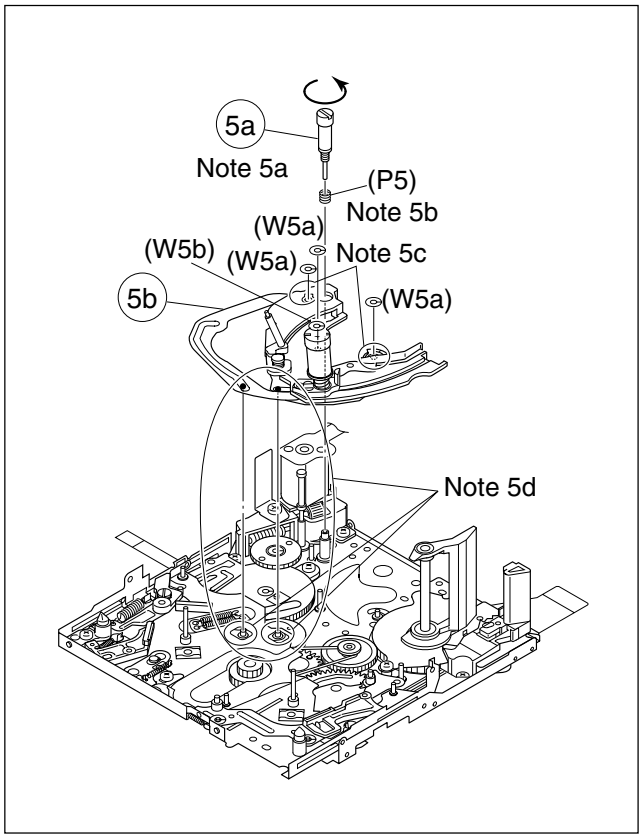
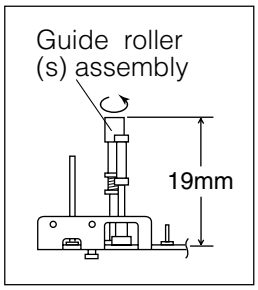


Fig. 2-4-9

Note 5a:
When reassembling, insert the tip of the guide roller with the coil spring put on it into the hole on the main deck. Tighten the guide roller by about 6 turns so that the height of the guide roller assembly is 19 mm or so as shown in the figure.



Note 5b:
Pay careful attention to the spring not to lose it.

Note 5c:
Pay careful attention to the engagement of the rail assembly's arm ends because they easily come off the engagement. Moreover, make sure that there is neither deformation nor damage observed in them.

Note 5d:
When removing the rail assembly, check to see if the collar is securely set in the arm groove.

6. (B) Slide deck assembly/ (C) Main deck assembly

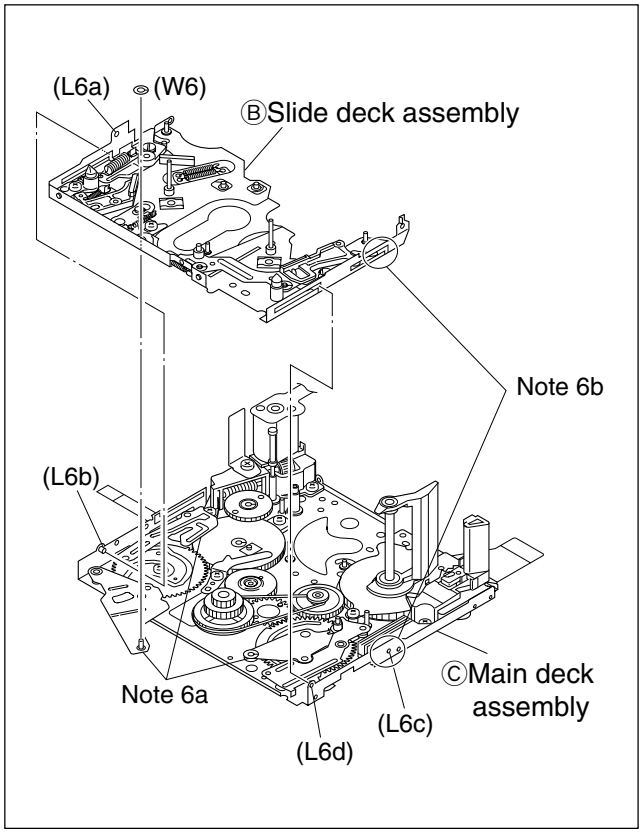
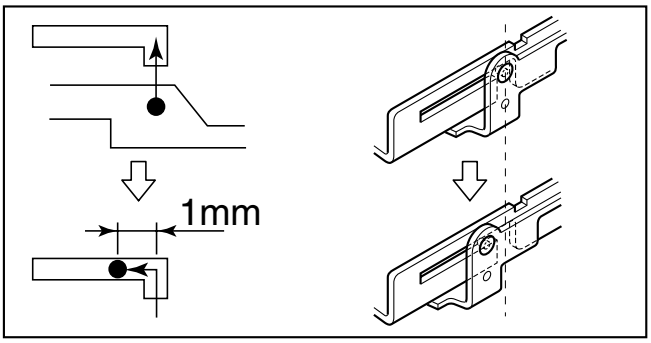


Fig. 2-4-10

Note 6a:
When removing the slide deck assembly, pay heed to the three components of the following because they are apt to come off after the slide deck assembly is removed.

(8a) Tension lever assembly/ (8b) Slide lever assembly
(8c) Brake control lever assembly
For reassembling those components, refer to Fig. 2-4-12.

Note 6b:
When reassembling the slide deck assembly to the main deck assembly, combine them with each other by the side grooves and then slide the slide deck assembly by 1 mm or so.



7. (7a) Loading brake assembly/ (7b) Guide pin (S)
(7c) Pad arm assembly/ (7d) Slide guide plate assembly
(7e) Collar/ (7f) Collar/ (7g) Sub brake assembly
(7h) Control plate assembly

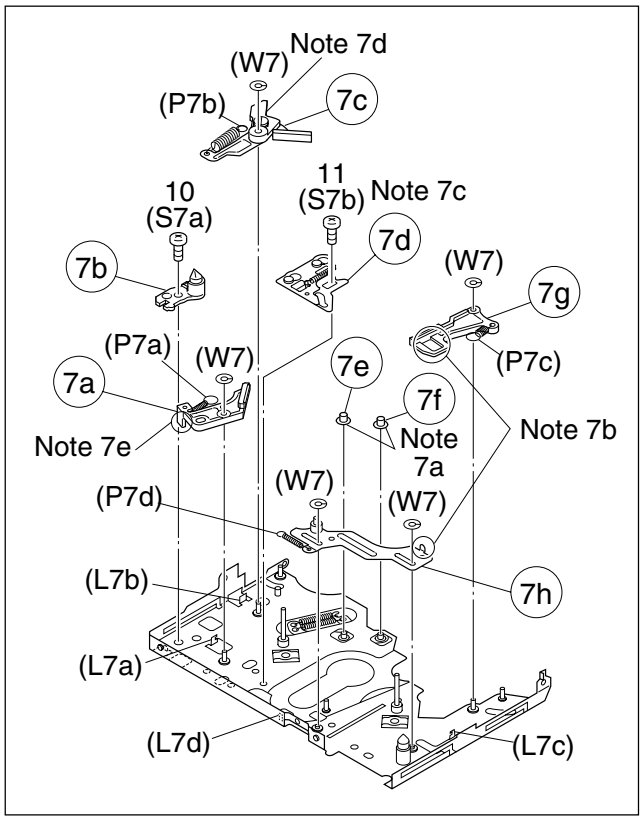


Fig. 2-4-11

8. (8a) Tension lever assembly/ (8b) Slide lever assembly
(8c) Brake control lever assembly

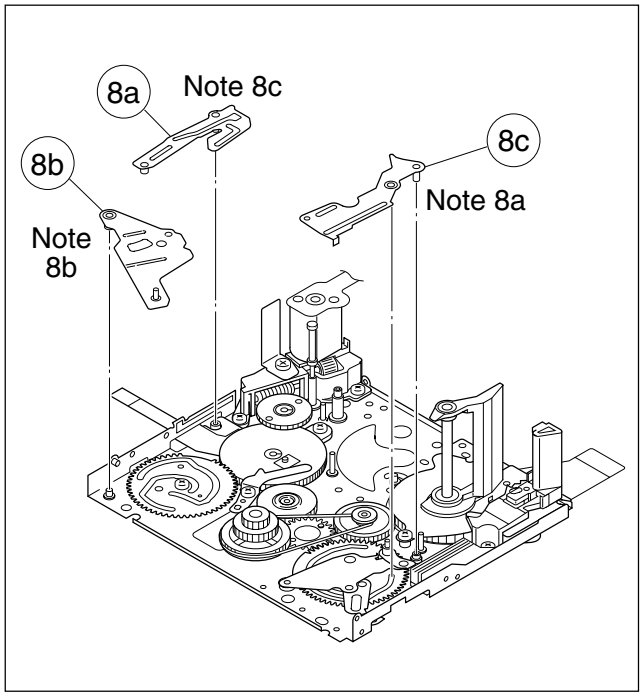
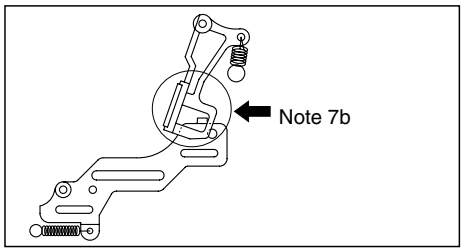


Fig. 2-4-12

Note 7a:
Don't remove these parts unreasonably. If they are removed for some reason, be very careful not to lose them.

Note 7b:
When reinstalling the sub brake assembly, set the control plate assembly so that its hook is set in the □ part of the sub brake assembly.



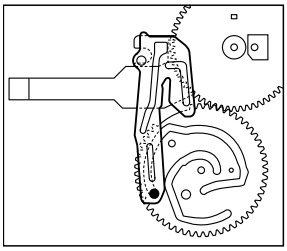
Note 7c:
Since the slide guide plate assembly controls the slide deck assembly so that it exactly slides the main deck assembly, it must exactly be assembled in the PLAY mode. Therefore, temporarily fix the slide guide plate assembly in this stage. For details of reassembling procedure, refer to "2.6.1 Assembling slide deck assembly and main deck assembly" .

Note 7d:
The pad arm assembly controls the tension level of the tension arm assembly. For adjustment of the tension arm assembly, refer to "2.6.2 Locating tension pole".

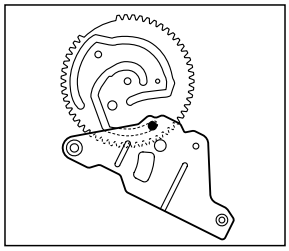
Note 7e:
When reinstalling the loading brake assembly, slightly lift the slide deck assembly upwards because the lower part of the loading brake assembly sticks out of the slide deck assembly.

Note 8a, 8b, 8c:
For refitting the respective parts, refer to the following figures

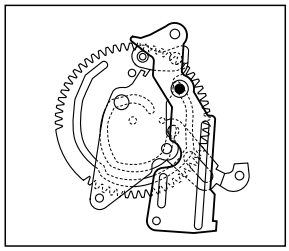
(8a) Tension lever assembly



(8b) Slide lever assembly



(8c) Brake control lever assembly



9. (9a) **Loading guide/** (9b) **Timing belt**
(9c) **Center gear assembly/** (9d) **Motor bracket assembly**
(9e) **Worm wheel/** (9f) **Gear holder**

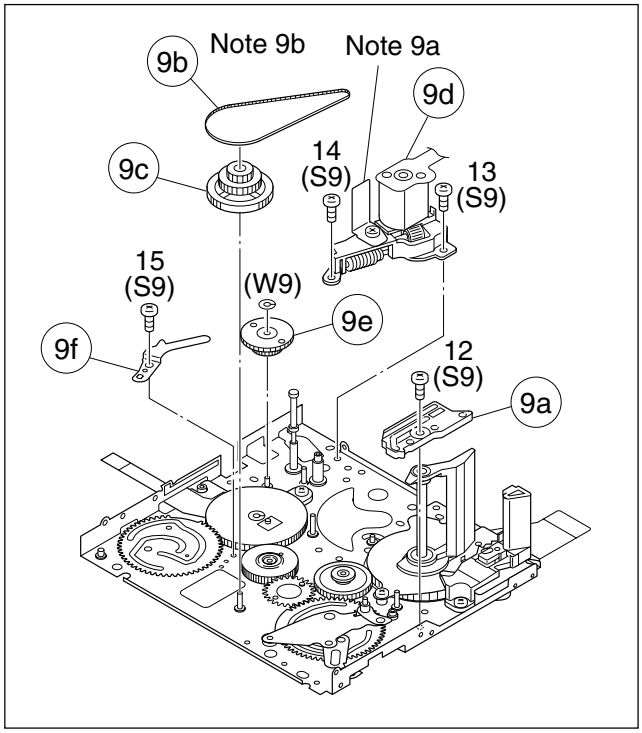


Fig. 2-4-13

Note 9a:
Carefully handle the DEW sensor. (Don't touch the sensor surface in particular.)

Note 9b:
When engaging the timing belt, make sure that it securely engages with the gears of both the center gear assembly and reel drive pulley assembly.

10. (10a) **Main cam gear/** (10b) **Brake control plate**
(10c) **Rotary encoder/** (10d) **Connect gear**
(10e) **Reel drive pulley assembly**

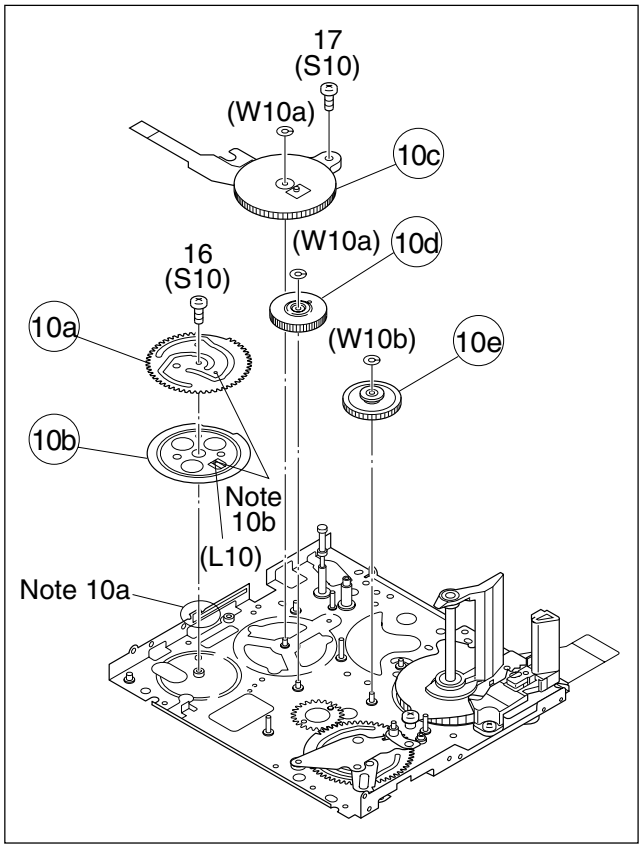
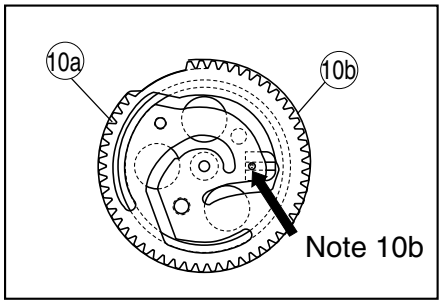


Fig. 2-4-14

Note 10a:
When removing/refitting parts, pay careful attention to the flexible board and so on not to damage them.

Note 10b:
When reinstalling the main cam gear and the brake control plate, first fit them together so that the protrusion on the brake control plate is set in the slot on the main cam gear as shown below, next install the two together to the main deck assembly.



11. (11a) Catcher (T) assembly/ (11b) Capstan motor
(11c) Charge arm assembly/ (11d) Sub cam gear
(11e) PWB holder

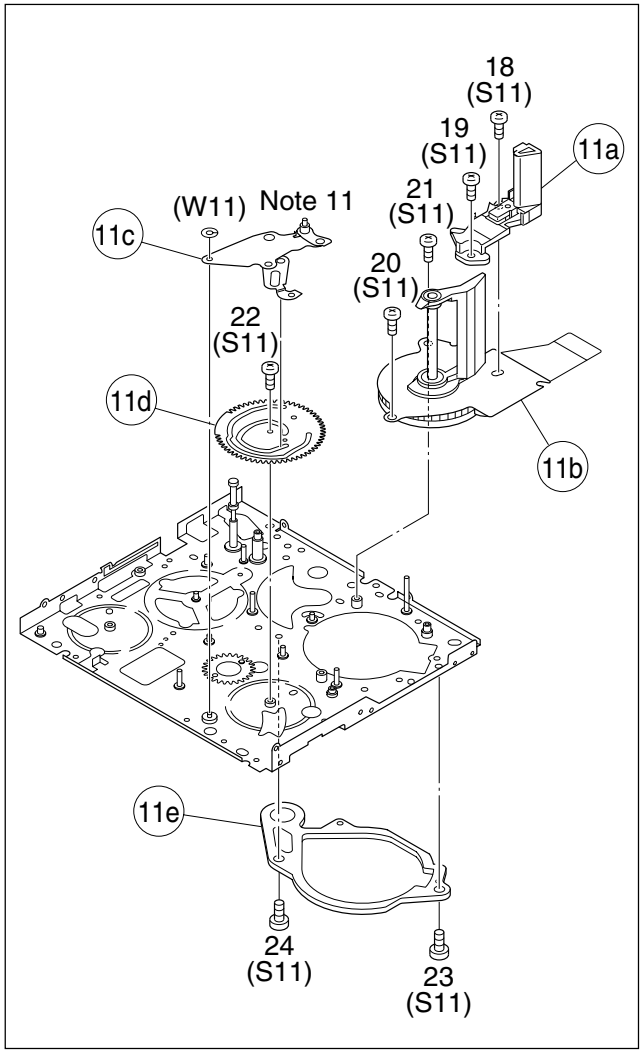
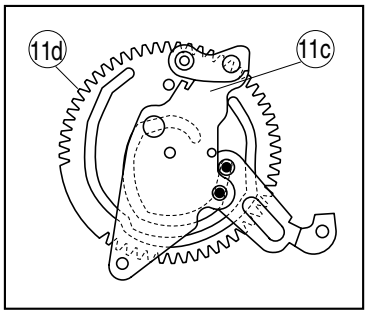
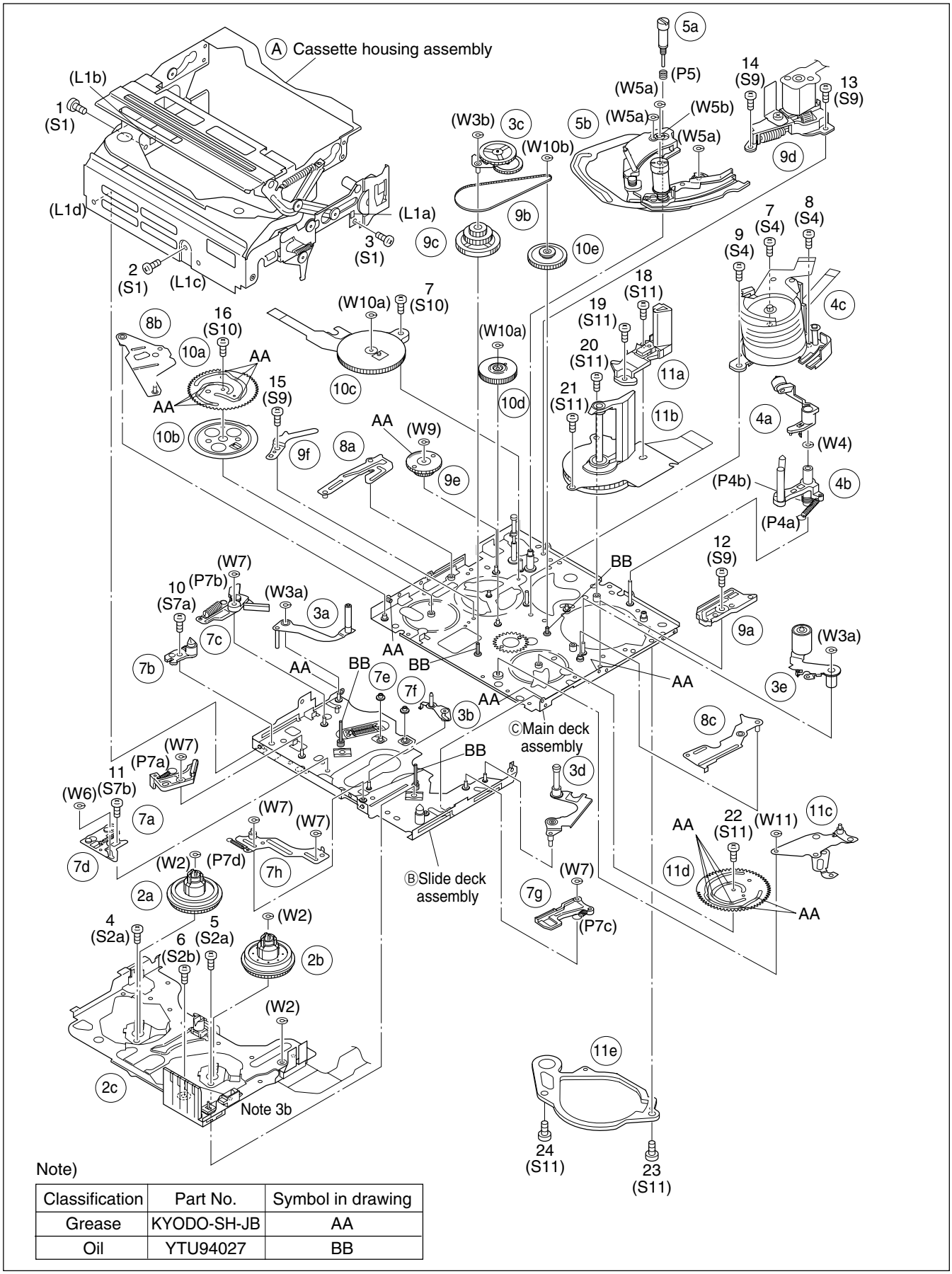


Fig. 2-4-15

Note 11:
The following figure shows how to put the charge arm assembly and sub cam gear assembly together.



2.4.3 List of procedures for disassembly

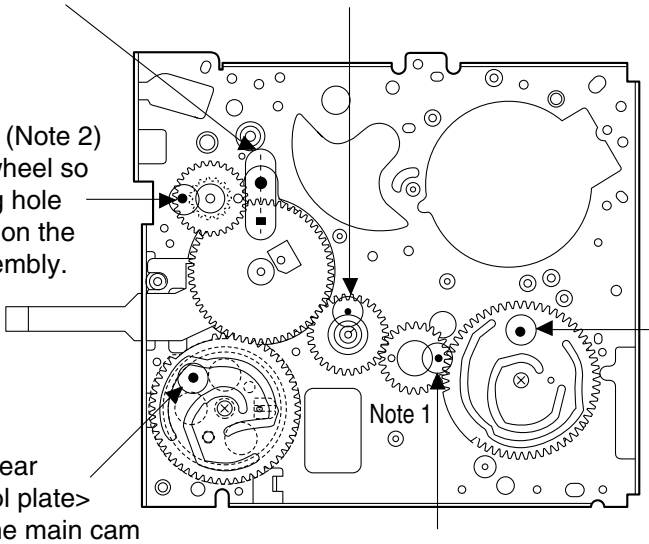


Note)

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

Fig. 2-4-16

2.5 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE



<Rotary encoder>
Set the "■" of the rotary part at the tapped hole as shown in the figure.

<Connect gear> (Note 2)
Set the connect gear so that its locating hole meets the hole on the main deck assembly.

<Worm wheel> (Note 2)
Set the worm wheel so that its locating hole meets the hole on the main deck assembly.

<Sub cam gear>
Set the sub cam gear so that its locating hole meets the hole on the main deck assembly. This state represents that the mechanism is in the EJECT mode, which is the "mechanism assembly mode".

<Main cam gear /Brake control plate>
After fitting the main cam gear and brake control plat together,set them together so that their locating holes meet the hole on the main deck assembly.

<Connect gear 2> (Note 2)
Set the connect gear 2 so that its locating hole meets the hole on the main deck assembly.

Note 1:
Since the connect gear 2 is tightly fixed to the main deck by caulking, adjust its phase with the connect gear and sub cam gear.

Note 2:
The part that needs phase adjustment by the hole on the main deck assembly must exactly be set as the specified phase. There is a fear that some part is installed in a wrong phase because assembling of the mechanism is automated. If so, set every part in the correct phase whenever the mechanism is reassembled.

Fig. 2-5-1

2.6 MECHANISM ADJUSTMENTS

2.6.1 Assembling slide deck assembly and main deck assembly

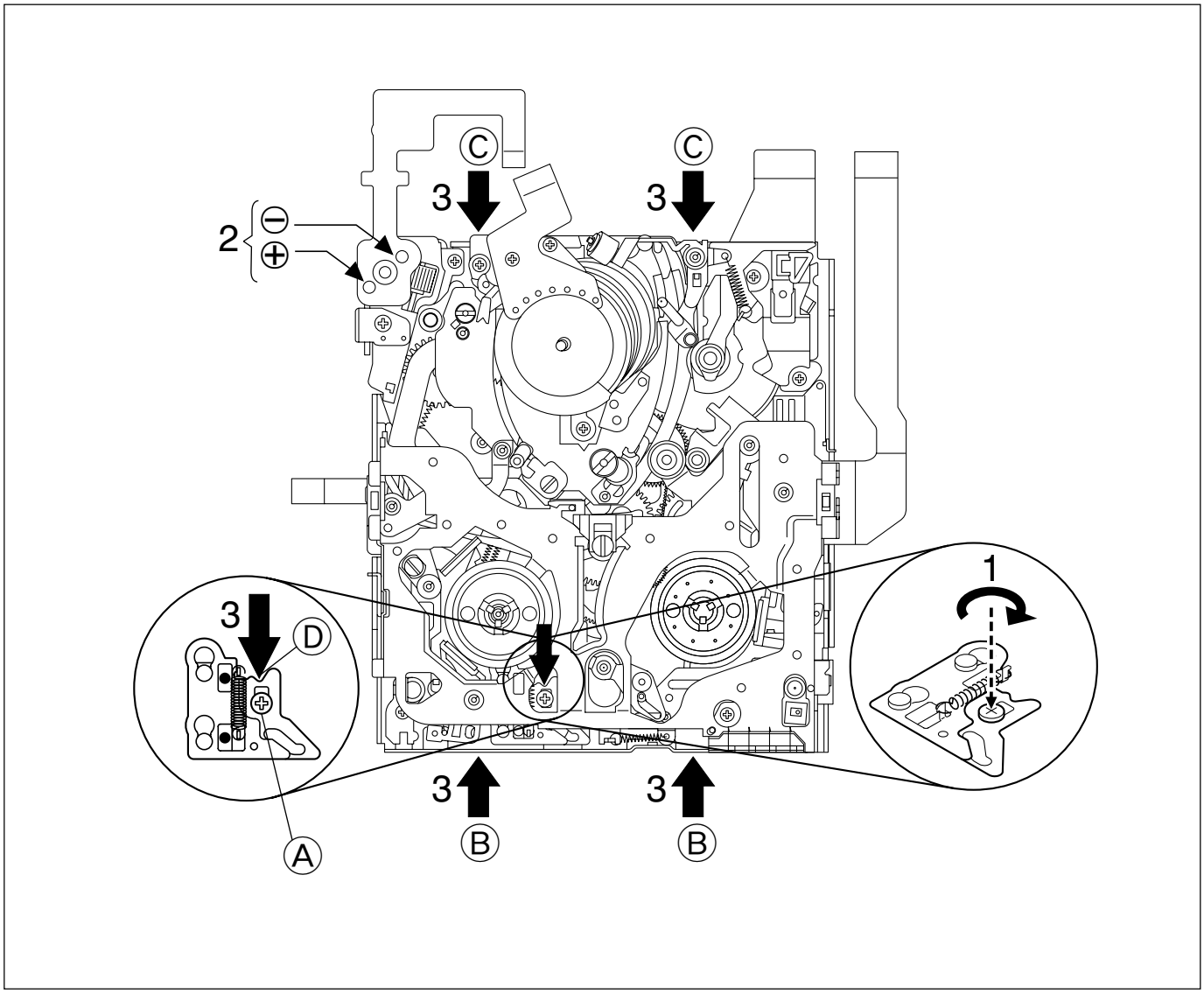


Fig. 2-6-1

Assembling procedure

1. Loosen the screw Ⓐ.
2. Set the mechanism in the PLAY mode.
   (Refer to “2.3.2 Explanation of mechanism mode”.)
3. Press the end face Ⓑ of the slide deck assembly (reel disk side) and the end face Ⓒ of the main deck assembly (drum assembly side) with uniform force so that the two assemblies are tightly pressed to each other. Furthermore, press the part Ⓓ and tighten the screw Ⓐ.

Note : *Tightening torque for screw Ⓐ: 0.069 N·m (0.7 kgf·cm)*

2.6.2 Locating tension pole

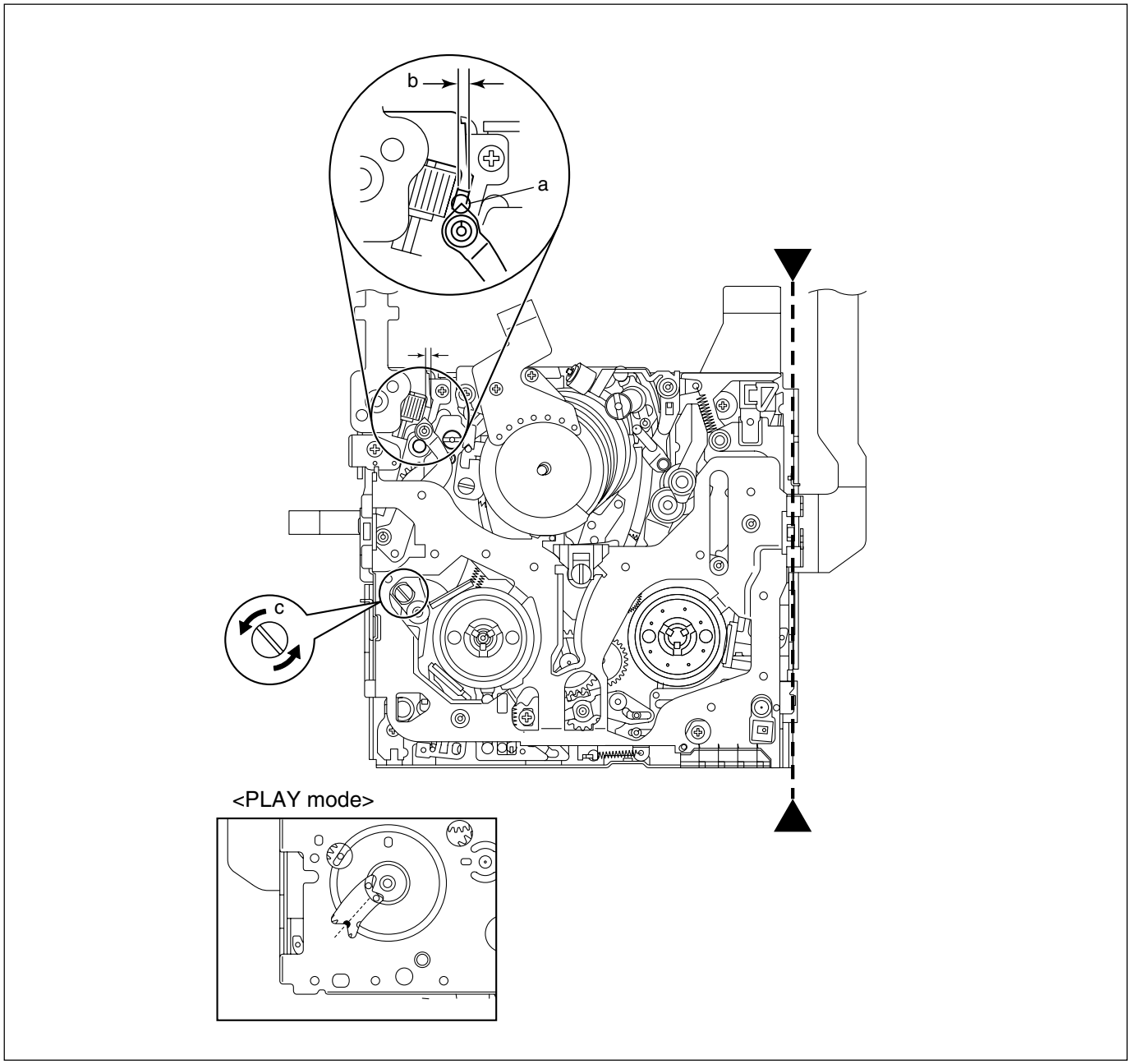


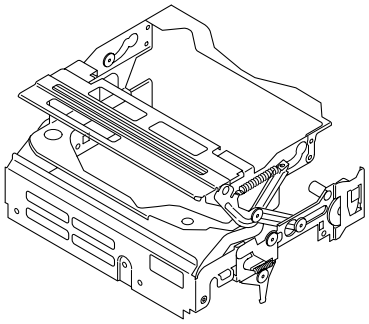
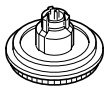
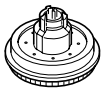
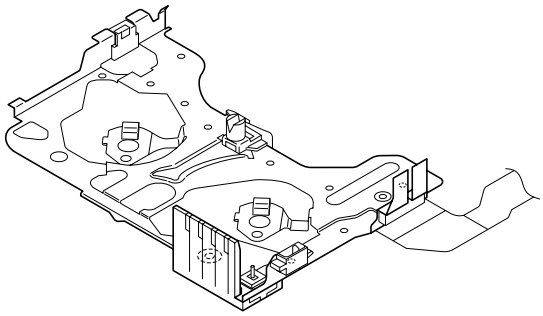
Fig. 2-6-2

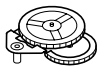
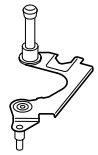
Locating procedure

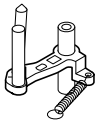
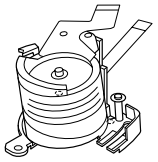
1. Enter the mechanism assembly into the PLAY mode. (Refer to “2.3.2 Explanation of mechanism mode”.)
2. When the “ ▶-----◀ ” part is positioned down, make sure that the part “a” of the tension arm assembly is located within the range of “b”.
3. If the part “a” is out of the range, turn the pin “c” to adjust the position.

2.7 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

<table>
<tr><td>1</td><td colspan="5">(A) Cassette housing assembly
 
S1×3</td></tr>
<tr><td>2</td><td colspan="2">(2a) Reel disk (SUP) assembly
 
W2×1
(2b) Reel disk (TU) assembly
 
W2×1</td><td colspan="3">(2c) Reel cover assembly
 
S2a×2 S2b×1 W2×1</td></tr>
<tr><td>3</td><td>(3a) Tension arm assembly

W3a×1</td><td>(3b) Release guide assembly
 </td><td>(3c) Idler arm assembly
 
W3b×1</td><td>(3d) Guide arm assembly
  </td><td>(3e) Pinch roller arm assembly

W3a×1</td></tr>
<tr><td>4</td><td>(4a) Cleaner arm assembly
 </td><td colspan="2">(4b) Slant pole arm assembly
 
W4×1 P4a×1 P4b×1</td><td colspan="2">(4c) Drum assembly
 
S4×3</td></tr>
<tr><td>5</td><td>(5a) Guide roller (S) assembly

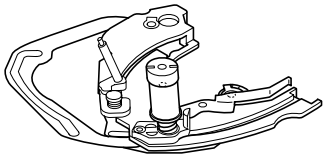
P5×1</td><td colspan="3">(5b) Rail assembly
 
W5a×3 W5b×1</td></tr>
</table>

Table 2-7-1a

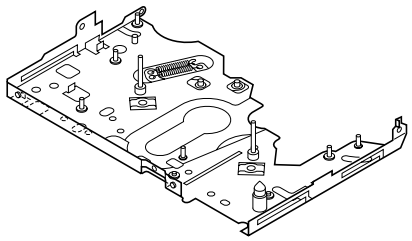
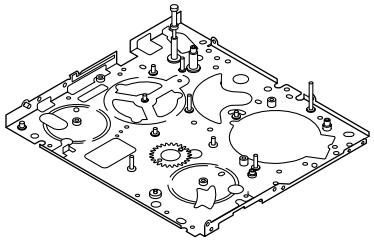
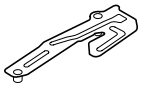
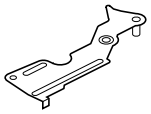
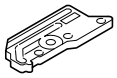
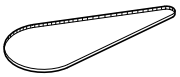
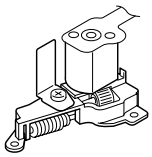
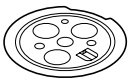
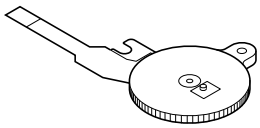
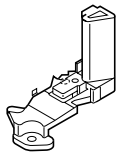
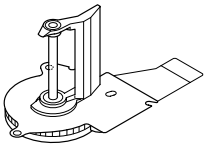
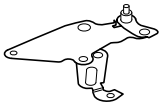
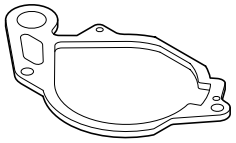
6	B Slide deck assembly  W6×1	7	7a Loading brake assembly W7×1 P7a×1	7b Guide pin (S) S7a×1	7c Pad arm assembly W7×1 P7b×1
			7e Collar 	7f Collar 	7g Sub brake assembly W7×1 P7c×1
8	C Main deck assembly 		8a Tension lever assembly 	8b Slide lever assembly 	8c Brake control lever assembly 
9	9a Loading guide  S9×1	9b Timing belt 	9c Center gear assembly 	9d Motor bracket assembly  S9×2	9e Worm wheel W9×1	9f Gear holder S9×1
10	10a Main cam gear S10×1	10b Brake control plate 	10c Rotary encoder  S10×1 W10a×1	10d Connect gear W10a×1	10e Reel drive pulley assembly W10b×1	
11	11a Catcher (T) assembly  S11×2	11b Capstan motor  S11×2	11c Charge arm assembly  W11×1	11d Sub cam gear S11×1	11e PWB holder  S11×2	

Table 2-7-1b

2.8 COMPATIBILITY ADJUSTMENT

2.8.1 Jig connector cable connection

Remove one screw (1) first and the cover (JIG) next.

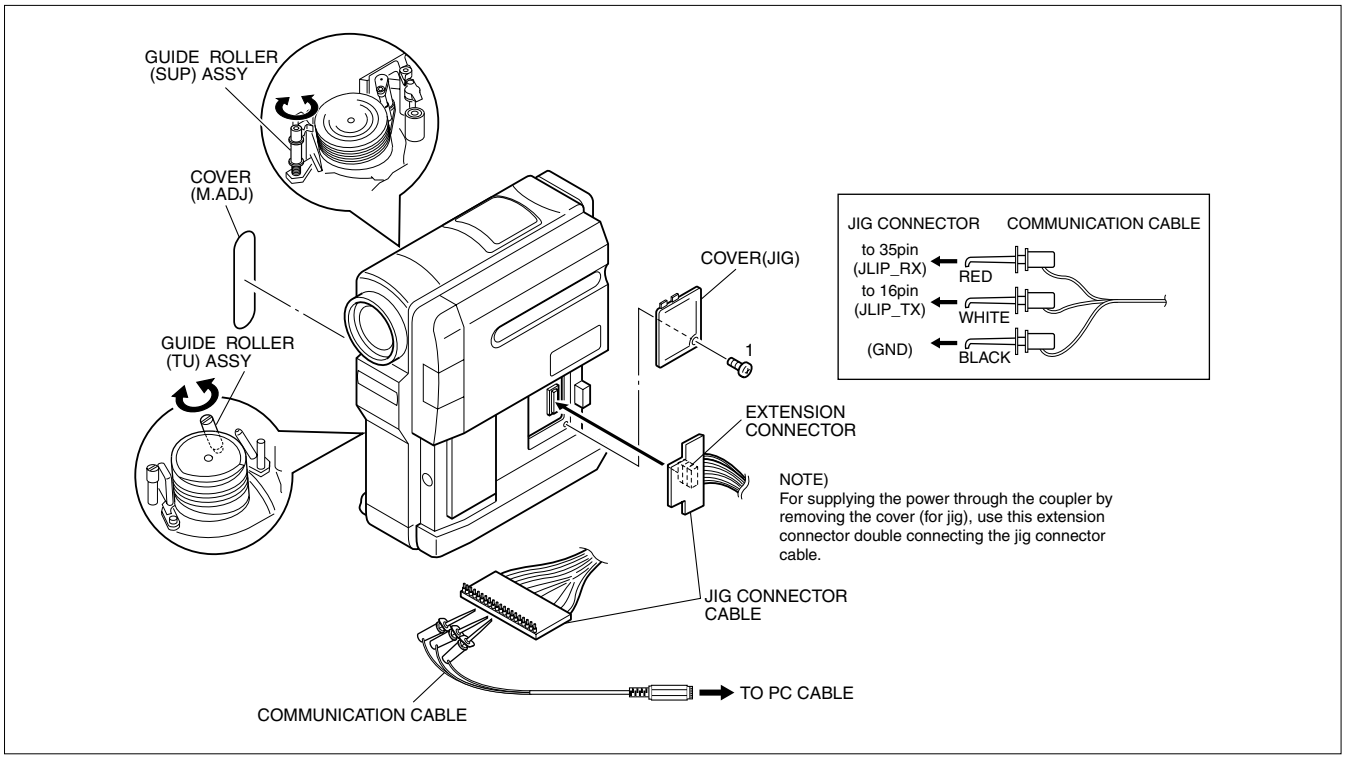


Fig. 2-8-1

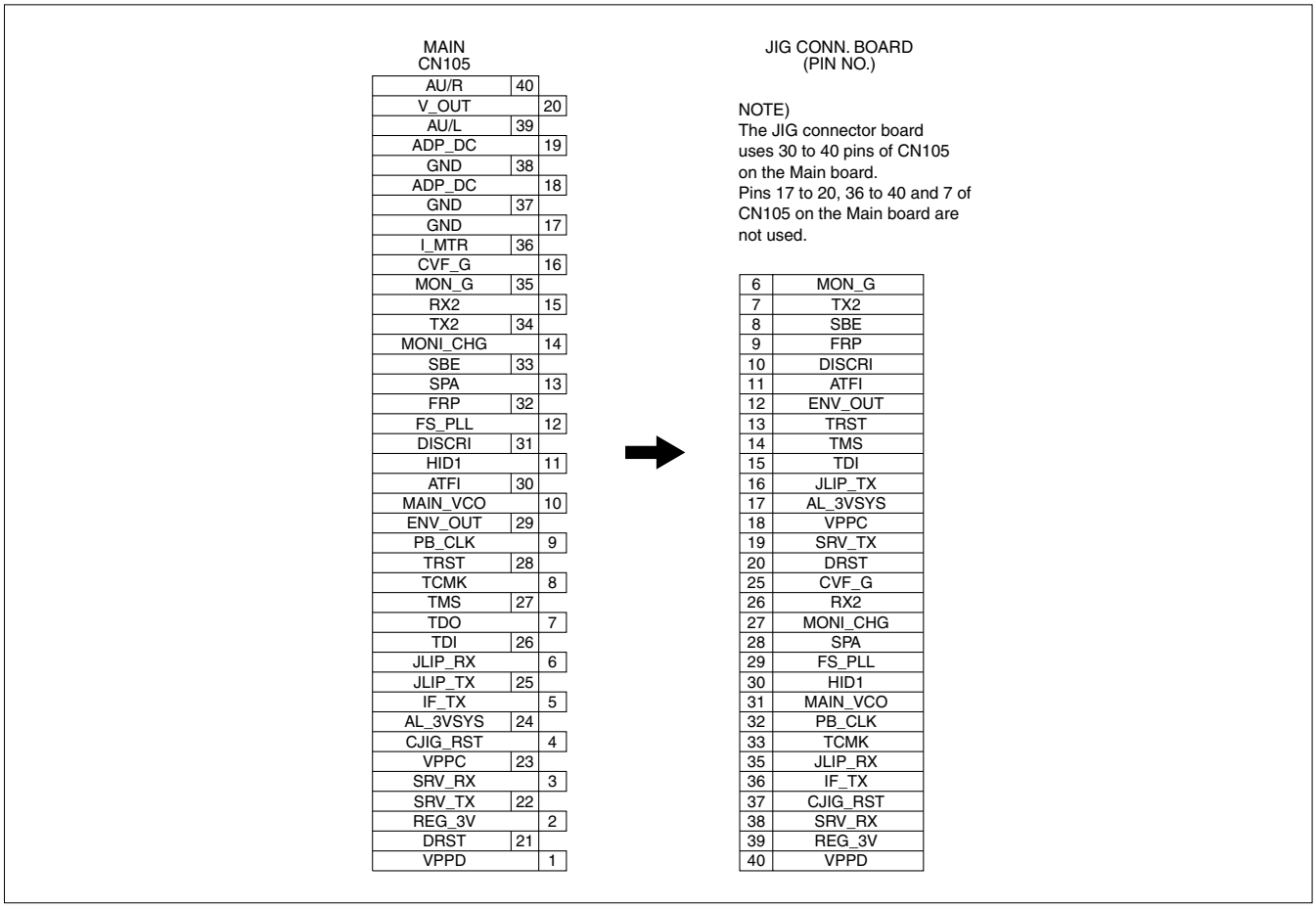


Fig. 2-8-2

2.8.2 Tape pattern check

(1) Play back the compatibility adjustment tape.

(2) While triggering the MAIN CN105-11PIN (HID1), observe the waveform of CN105-29PIN (ENV_OUT).

(3) Confirm that the waveform is free from remarkable level-down, and entirely parallel and straight.
Moreover, perform the following adjustment as required.

(4) In case any level-down is observed on the left hand side, straighten the level by turning the guide roller of the pole base assembly (supply).
In case any level-down is observed on the right hand side, however, straighten the level by turning the guide roller of the pole base assembly (Take-up).

(5) After adjustment, try the unloading motion once, and confirm that the waveform is flat (straight) when the tape has been played back again.
Moreover, perform readjustment as required.

(6) When the recording has been played back again, play back the self-recording to confirm that the waveform is flat.

Note:
When an adjustment is performed with the lower case cover attached, first slide the Cover (M.ADJ) open and then perform the compatibility adjustment.
Be sure not to damage the cover plate when sliding it open to make an adjustment because it must be re-positioned after completing the adjustment.

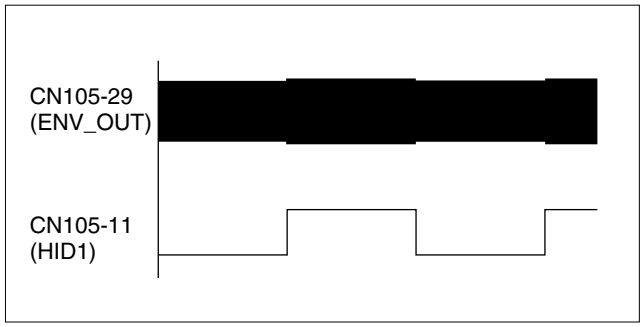


Fig. 2-8-3

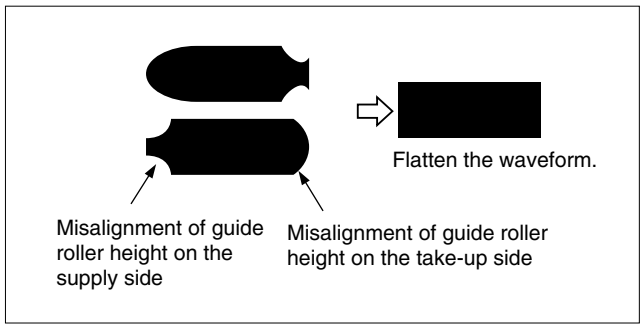

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig. 2-8-4

SECTION 3
ELECTRICAL ADJUSTMENT

3.1 PRECAUTION

1. Precaution

Both the camera and deck sections of this model needs a personal computer for adjustment except simple adjustment with potentiometers. If some of the following parts is replaced for repair or other reason, the repaired set must be adjusted with a personal computer.

- OP block
- E^2PROM (IC1003 of MAIN board)
- E. VF
- MONITOR
- E^2PROM (IC7603 of MONITOR board)

In the event of malfunction with electrical circuits, trouble-shooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

1. In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
2. Since connectors are fragile, carefully handle them in disconnecting and connecting.

2. Required test equipment

1. Color TV monitor.
2. Oscilloscope (dual-trace type, observable 100 MHz or higher frequency)
   Note : *It is recommended to use one observable 300 MHz or higher frequency.*
3. Digital voltmeter
4. Frequency counter (with threshold level adjuster)
5. Personal computer

3. Tools required for adjustments

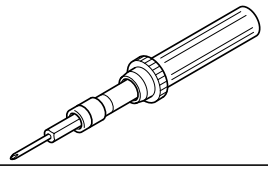
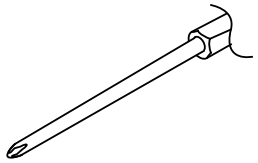
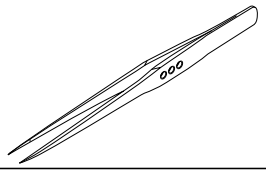
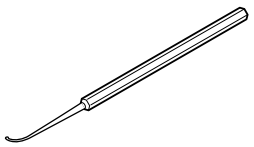
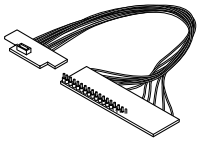
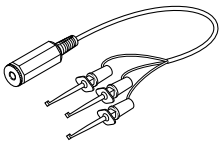
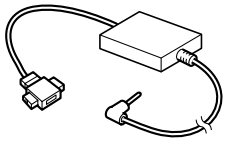
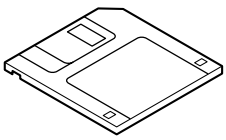
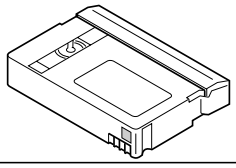
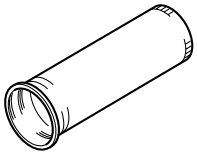
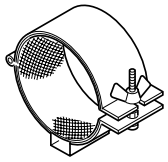
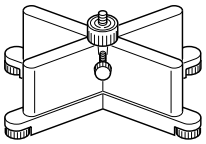
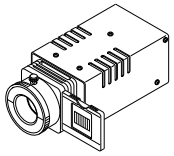
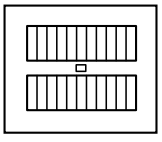
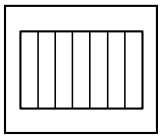
1 Torque driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC replacement jig PTS40844-2
	
5 Jig connector cable YTU93106C	6 Extension connector YTU94145D-40
	
7 Communication cable YTU93107A	8 PC cable QAM0099-002
	
9 Service support system YTU94057-59	10 Alignment tape MC-2
	
11 INF adjustment lens YTU92001B	12 INF adjustment lens holder YTU94087
	
13 Camera stand YTU93079	14 Light box assembly YTU93096A
	
15 Gray scale chart YTU94133A	16 Color bar chart YTU94133C
	

Table 3-1-1

1. Torque driver
Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.

2. Bit
This bit is slightly longer than those set in conventional torque drivers.

3. Tweezers
To be used for removing and installing parts and wires.

4. Chip IC replacement jig
To be used for adjustment of the camera system.

5. Jig connector cable
Connected to CN105 of the main board and used for electrical adjustment, etc.

6. Extension connector
Connect this extension connector to the connector of the jig connector cable for extending the cable connector.

Note: *For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.*

7. Communication cable
Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.

8. PC cable
To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.

9. Service support system
To be used for adjustment with a personal computer.

10. Alignment tape
To be used for check and adjustment of interchangeability of the mechanism.

11. INF adjustment lens
To be used for adjustment of the camera system.

12. INF adjustment lens holder
To be used together with the camera stand for operating the VideoMovie in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.

13. Camera stand
To be used together with the INF adjustment lens holder.

14. Light box assembly
To be used for adjustment of the camera system.

15. Gray scale chart (for Light box assembly)
To be used for adjustment of the camera system.

16. Color bar chart (for Light box assembly)
To be used for adjustment of the camera system.

3.2 SETUP

1. Setup for electrical adjustment with personal computer.

NOTE: *Remove one screw (1) first and the cover (JIG) next.*

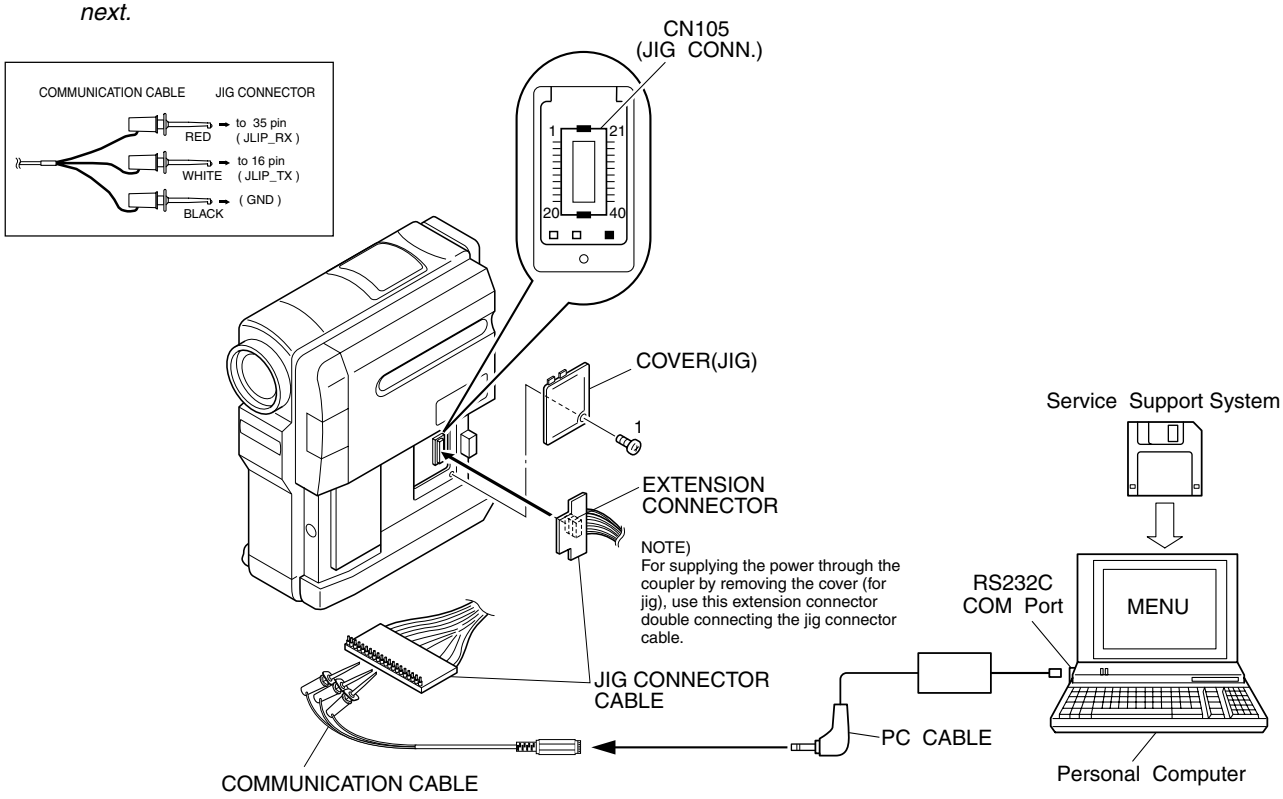


Fig. 3-2-1 Connection for Service support system

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

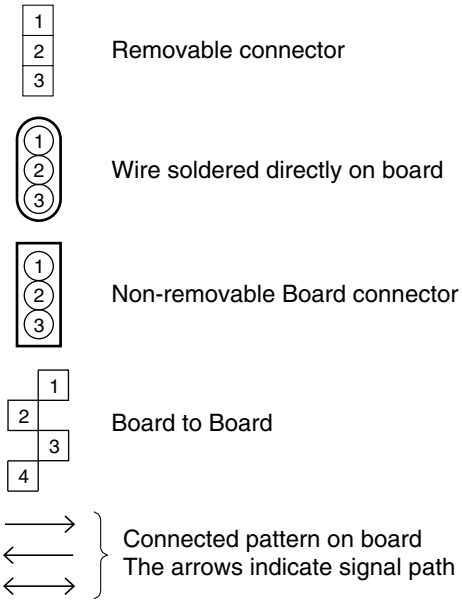
1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high.

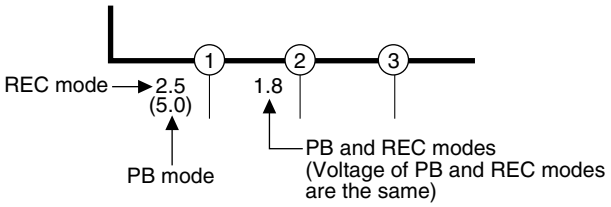
$\overline{AUX}$ or AUX(L) : Active at low.

3. Interpreting Connector indications



4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.

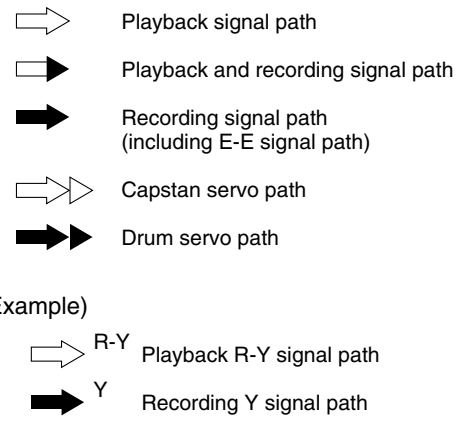


Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

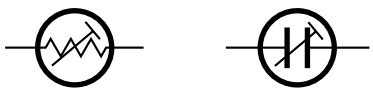
The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.



6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.

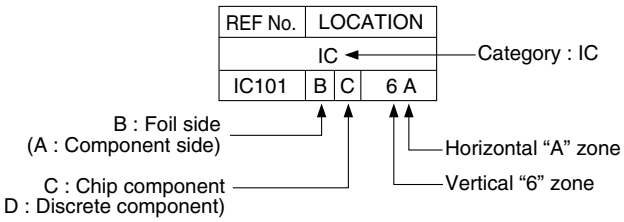
CIRCUIT BOARD NOTES

1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

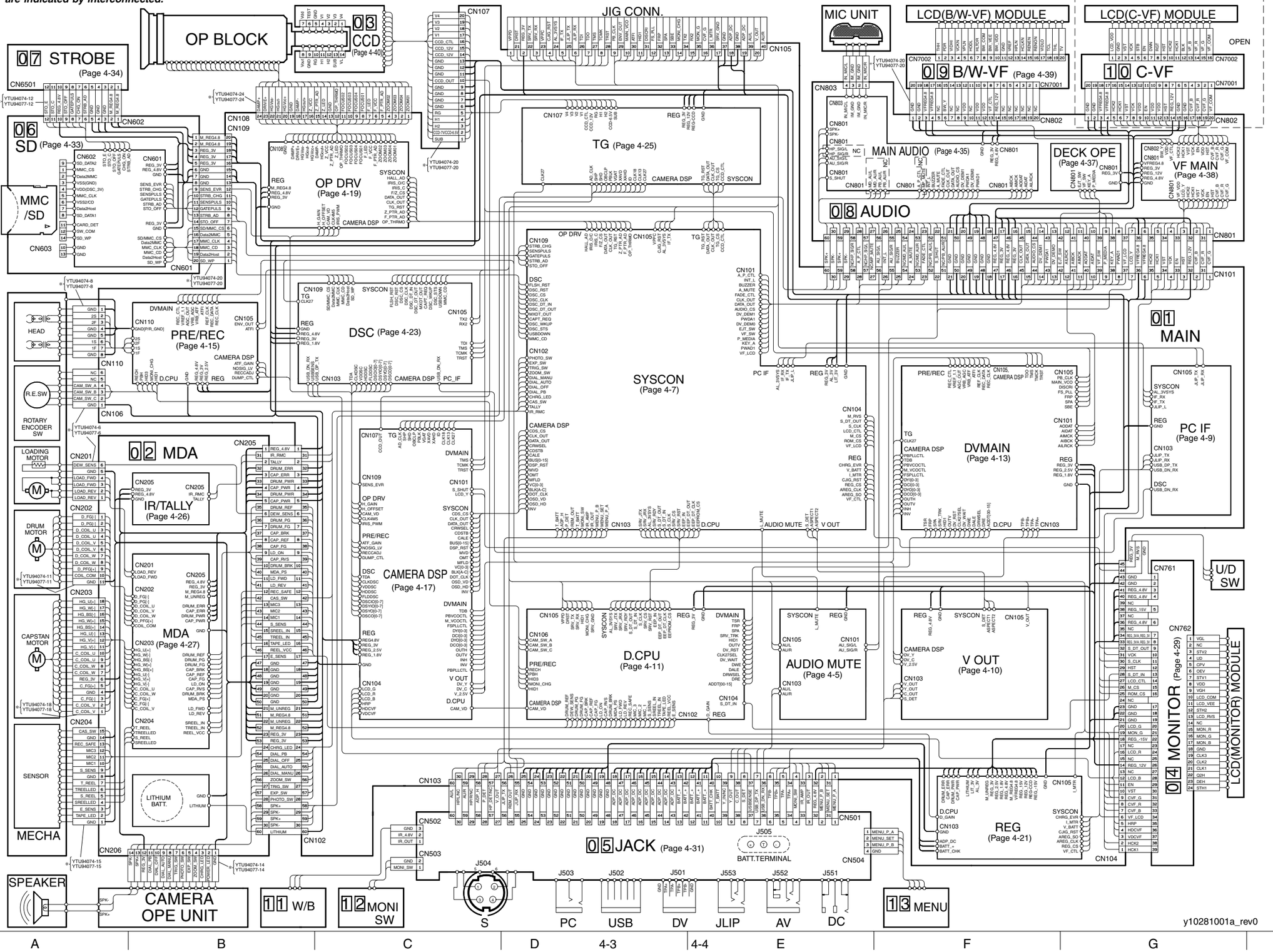
Parts location are indicated by guide scale on the circuit board.



Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS

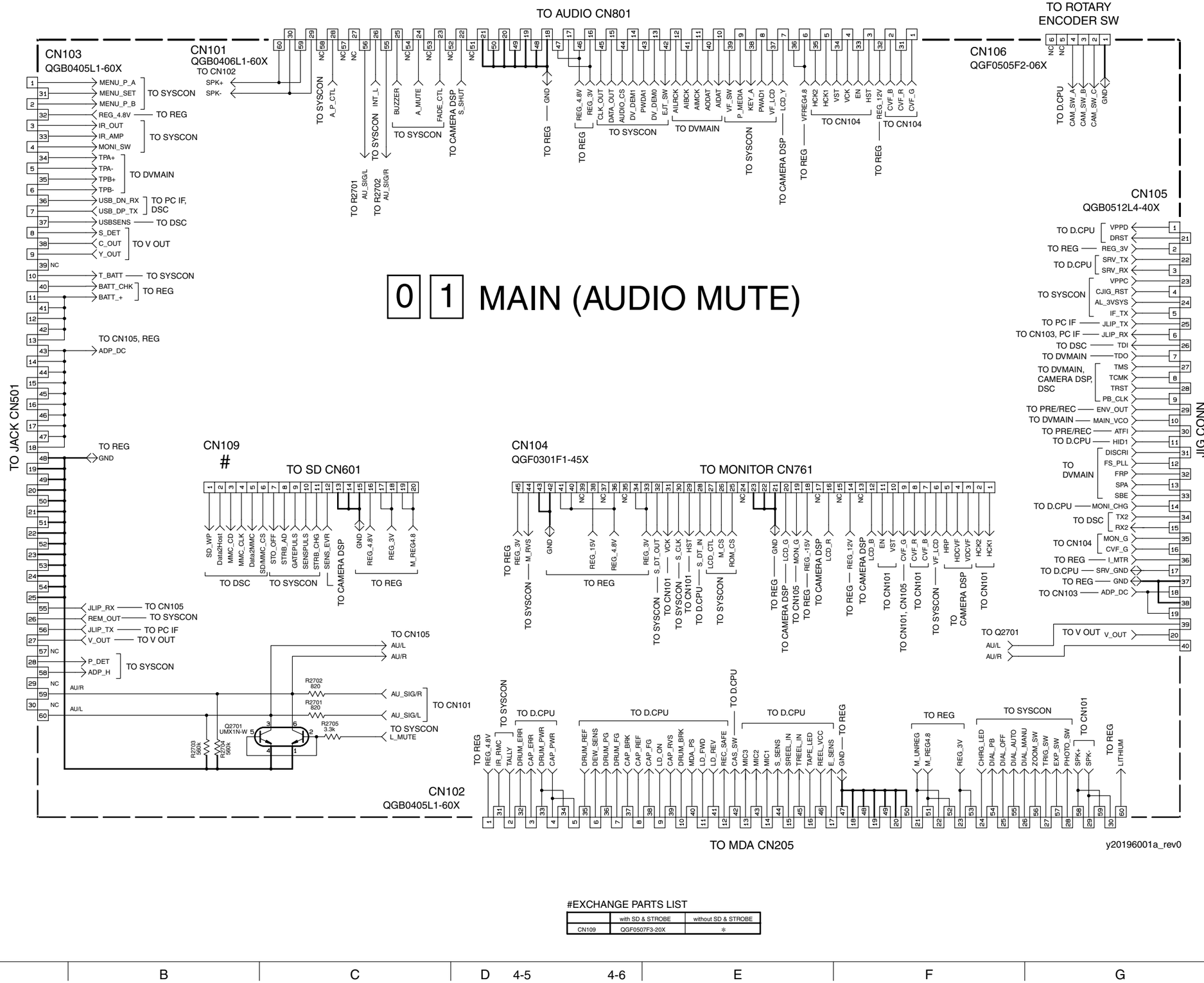
NOTE)∗ : The number of patch cords are indicated by interconnected.



y10281001a_rev0

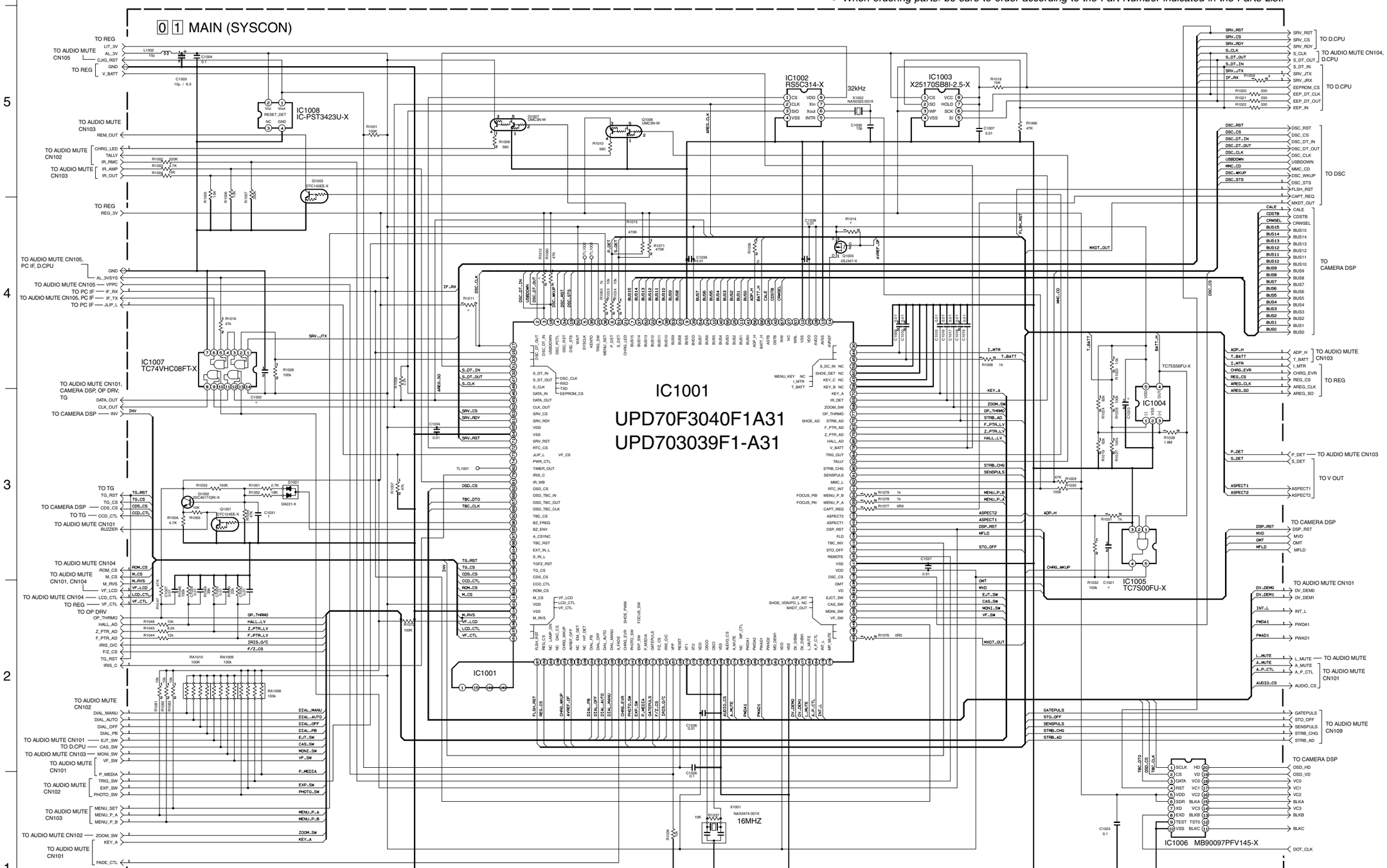
4.2 AUDIO MUTE SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*


0 1 MAIN (AUDIO MUTE)
TO AUDIO CN801
TO ROTARY ENCODER SW
CN103
QGB0405L1-60X
CN101
QGB0406L1-60X
TO CN102
CN106
QGF0505F2-06X
CN105
QGB0512L4-40X
JIG CONN
TO JACK CN501
CN109
#
TO SD CN601
CN104
QGF0301F1-45X
TO MONITOR CN761
CN102
QGB0405L1-60X
TO MDA CN205
TO SYSCON
TO REG
TO DVMAIN
TO PC IF, DSC
TO DSC
TO V OUT
TO CN105, REG
TO CN105
TO CN101
TO PC IF
TO V OUT
TO CAMERA DSP
TO CAMERA DSP
TO D.CPU
TO SYSCON
TO CN104
TO CN101
TO DVMAIN
TO SYSCON
TO REG
TO SYSCON
TO CAMERA DSP
TO SYSCON
TO REG
TO SYSCON
TO CAMERA DSP
TO REG
TO SYSCON
TO CAMERA DSP
TO CN101
TO REG
TO SYSCON
TO CN101
TO REG
TO SYSCON
TO CN101
TO REG
TO SYSCON

4.3 SYSCON SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



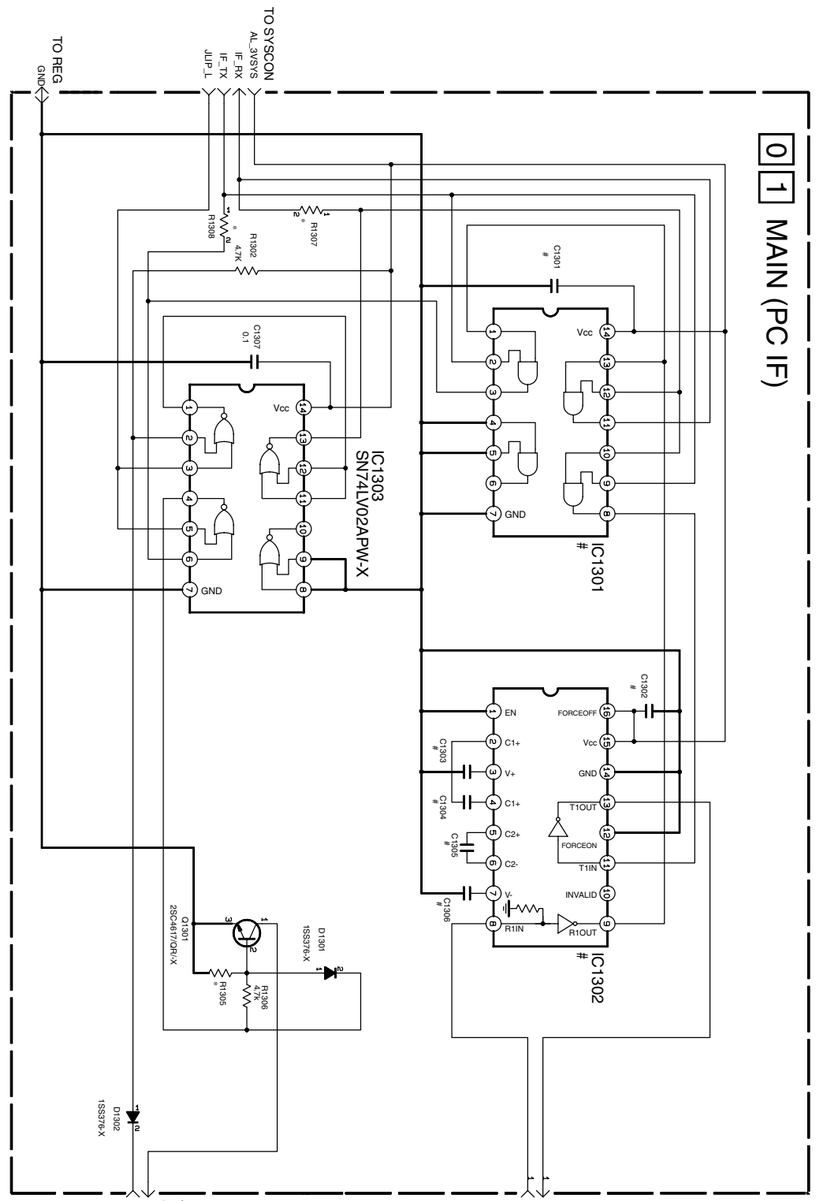
Exchange parts list

	R1059
With DSC MODEL	*
Without DSC MODEL	0Ω

4.4 PC IF AND V OUT SCHEMATIC DIAGRAMS

- PC IF -

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



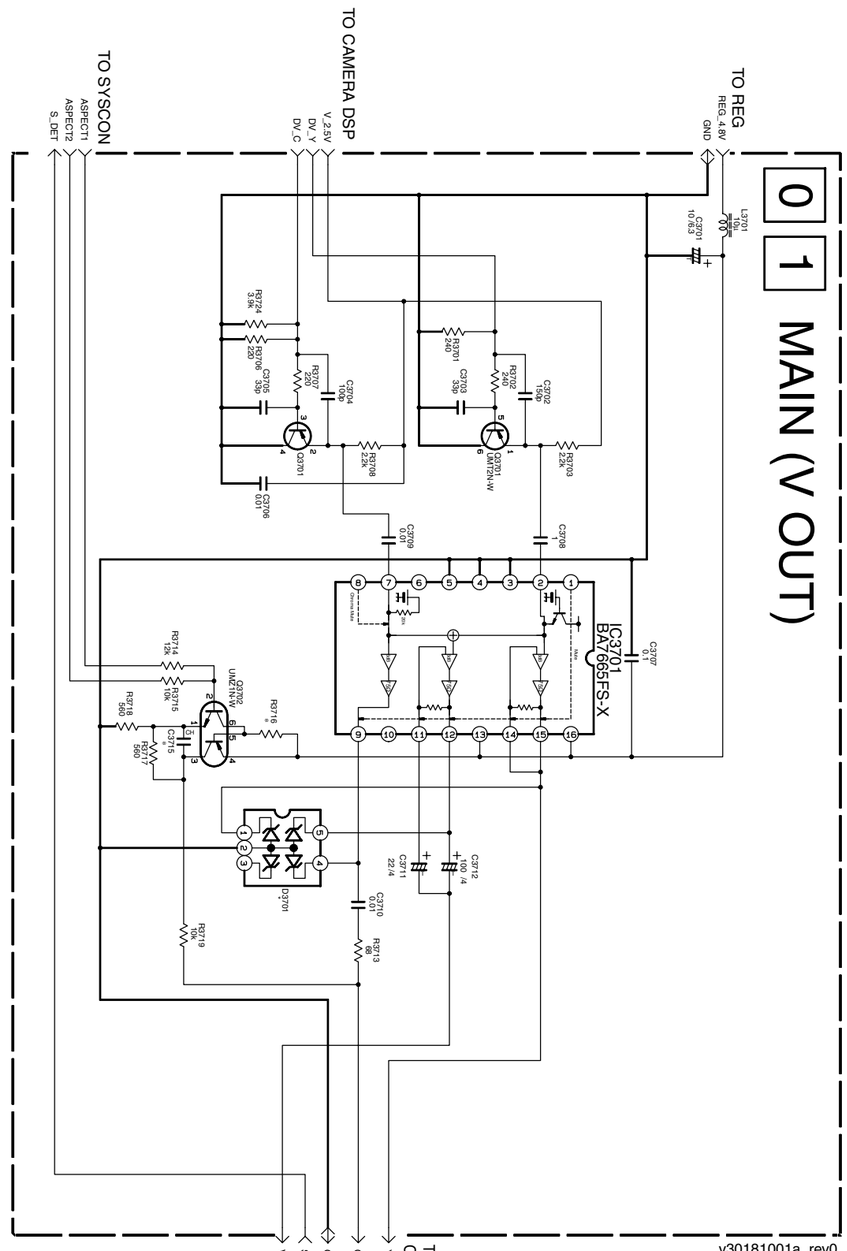
NOTE : The parts with marked (*) is not used.

Exchange pars list

	IC1301	IC1302	C1301 ~C1306	R1307 R1308
With DSC MODEL	*	*	*	0Ω
Without DSC MODEL	SN74LV08APW-X	MAX3221CAE-X	0.1	*

- V OUT -

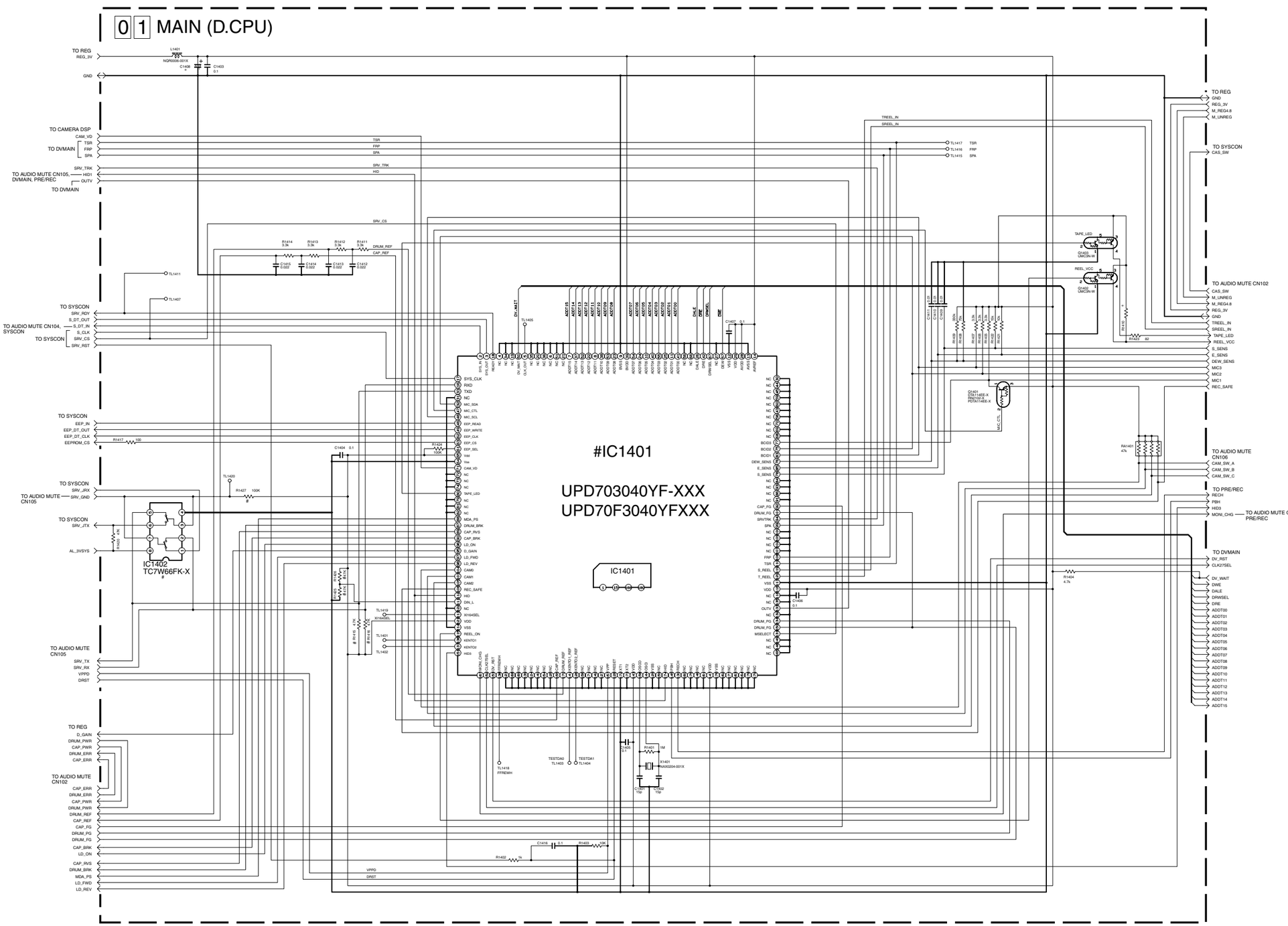
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

4.5 D.CPU SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

Exchange Parts List

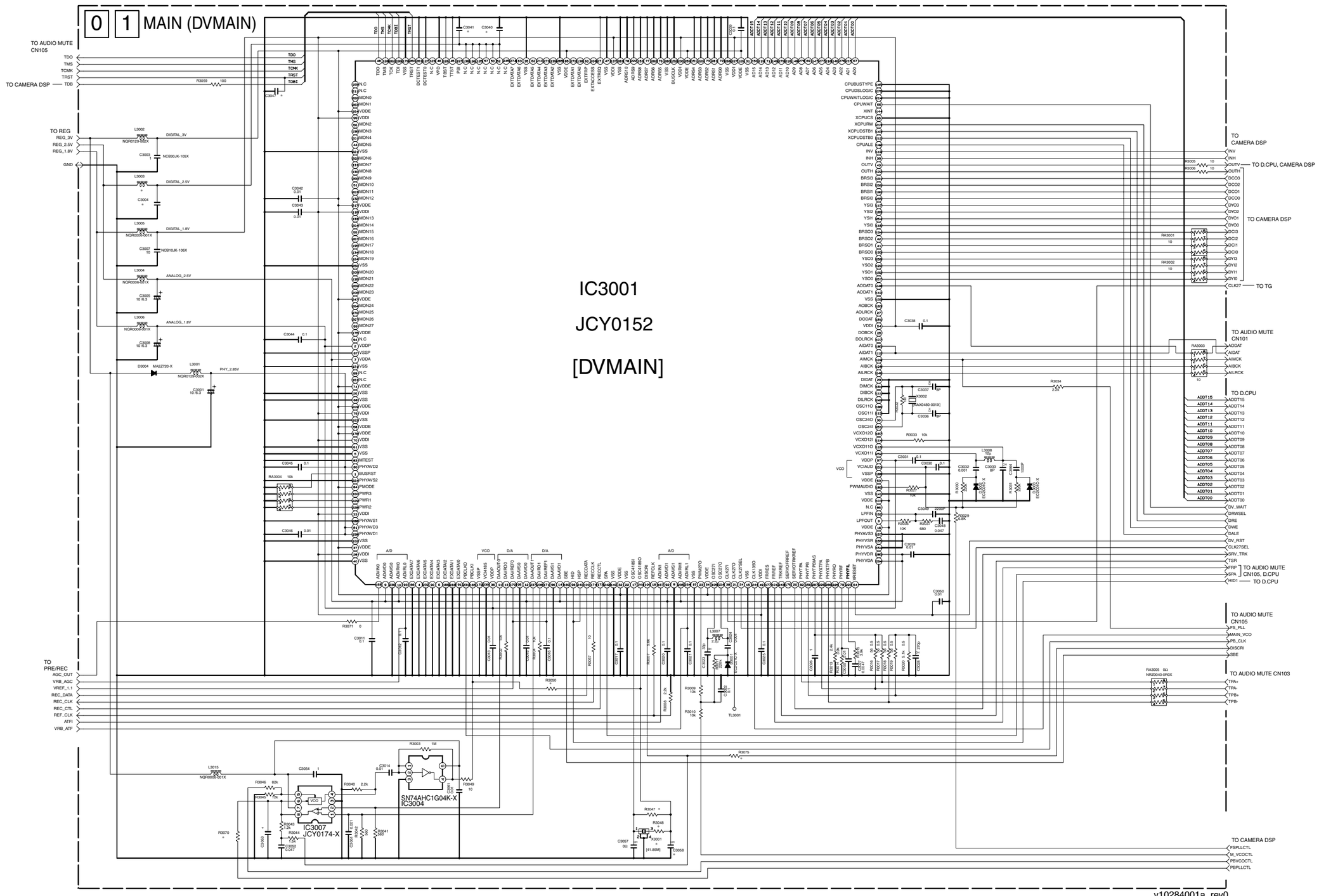
	IC1402	R1415, R1416	R1427	IC1401 ROM No.
With DSC MODEL	*	4.7k	*	M10
Without DSC MODEL	TC7W66FK-K	*	100k	M12

	R1425	R1426
DV INPUT MODEL	47k	*
NON DV INPUT MODEL	*	47k

y10283001a_rev0

4.6 DVMAIN SCHEMATIC DIAGRAM

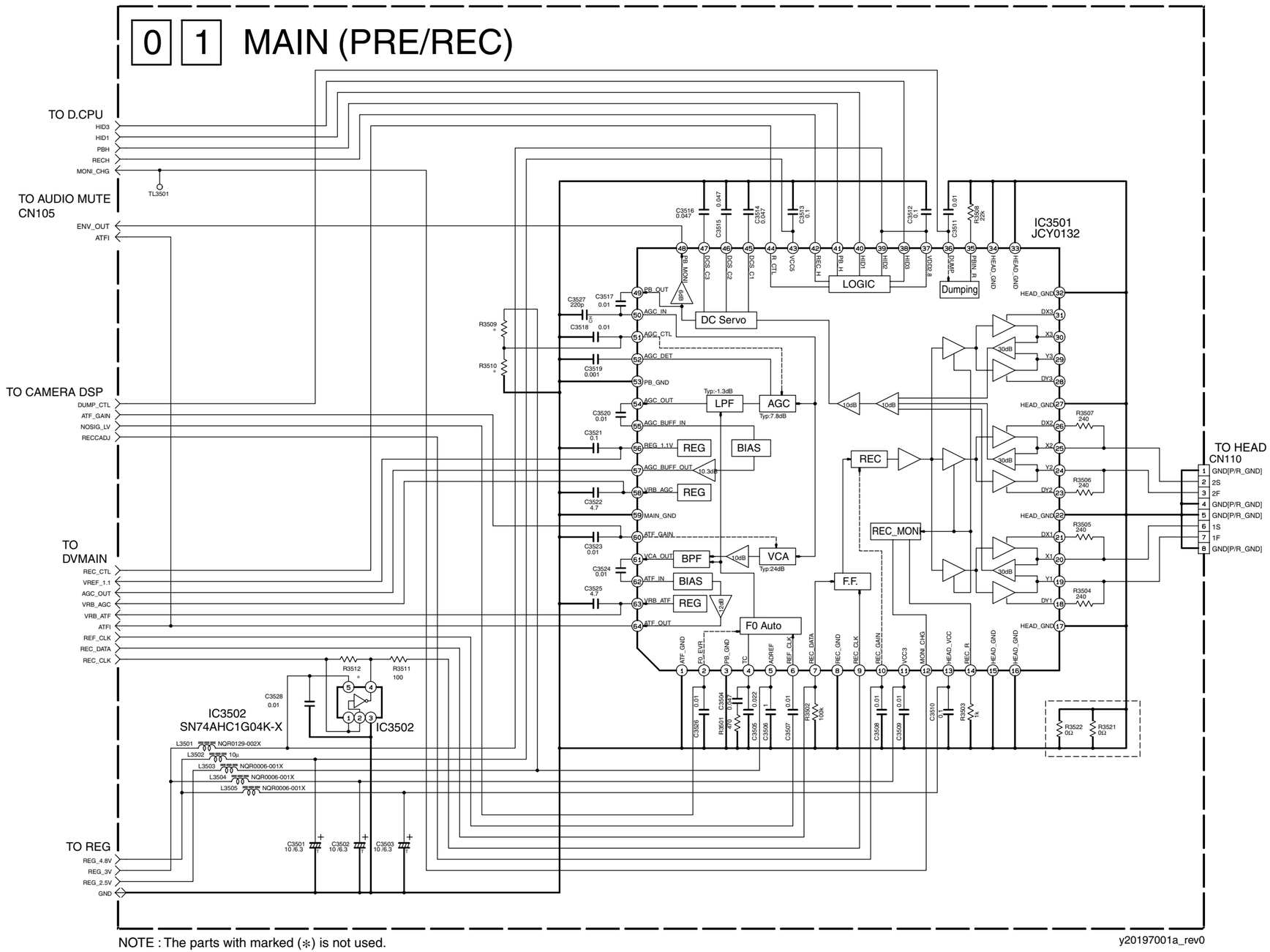
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

4.7 PRE/REC SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

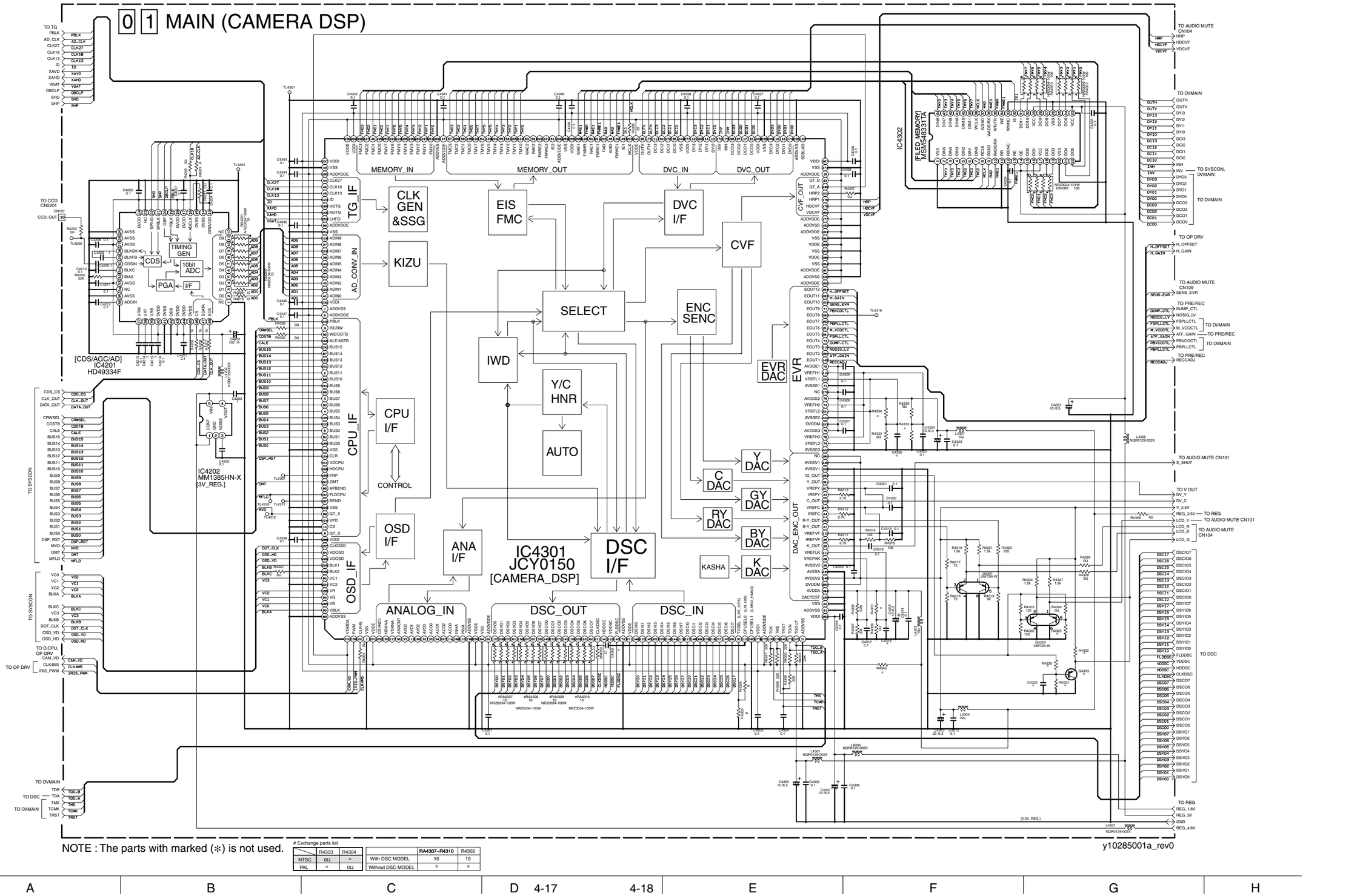


NOTE : The parts with marked (*) is not used.

y20197001a_rev0

4.8 CAMERA DSP SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



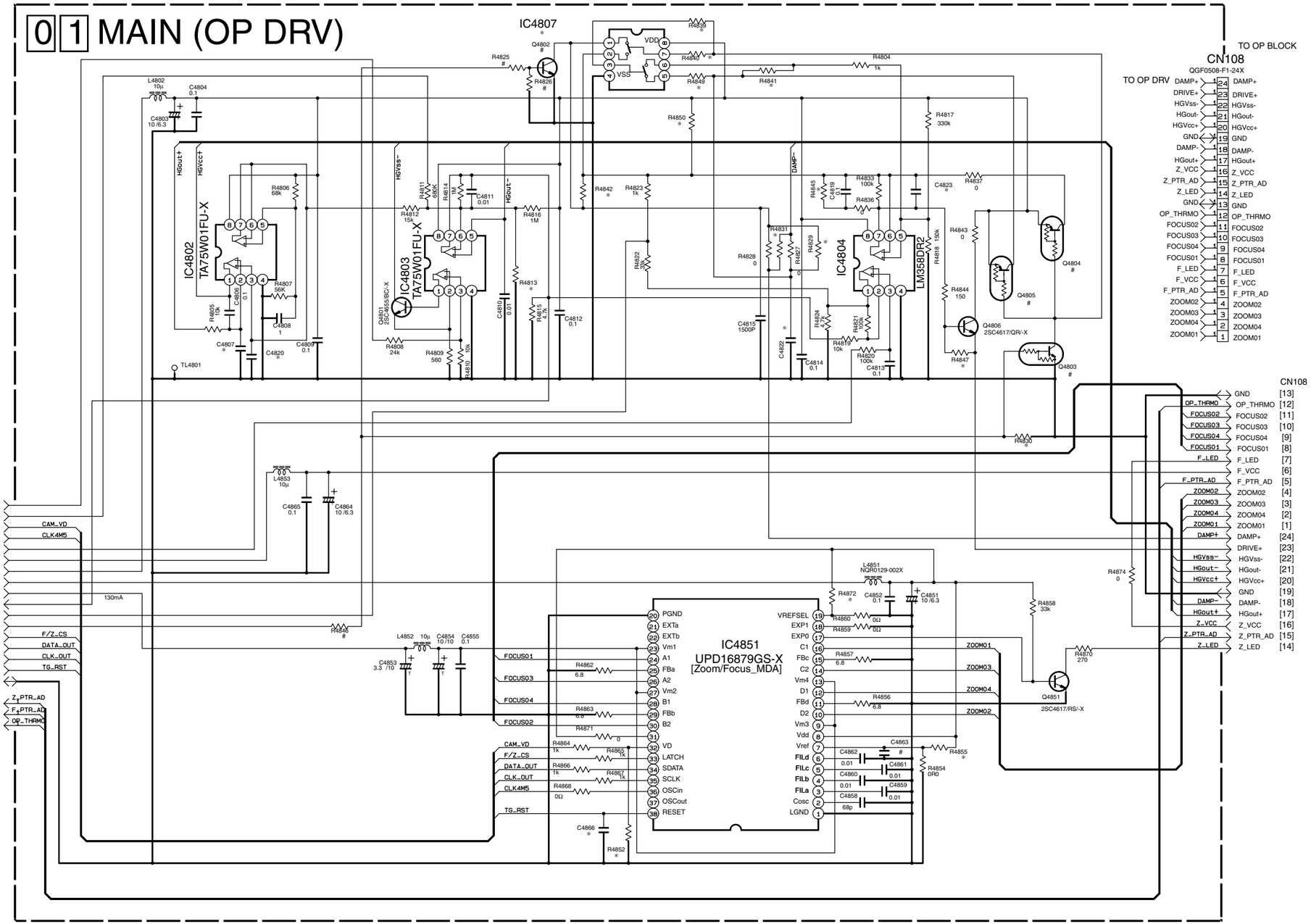
Exchange parts list

	R4303	R4304
NTSC	0Ω	*
PAL	*	0Ω

	RA4307–R4310	R4302
With DSC MODEL	10	10
Without DSC MODEL	*	*

4.9 OP DRV SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

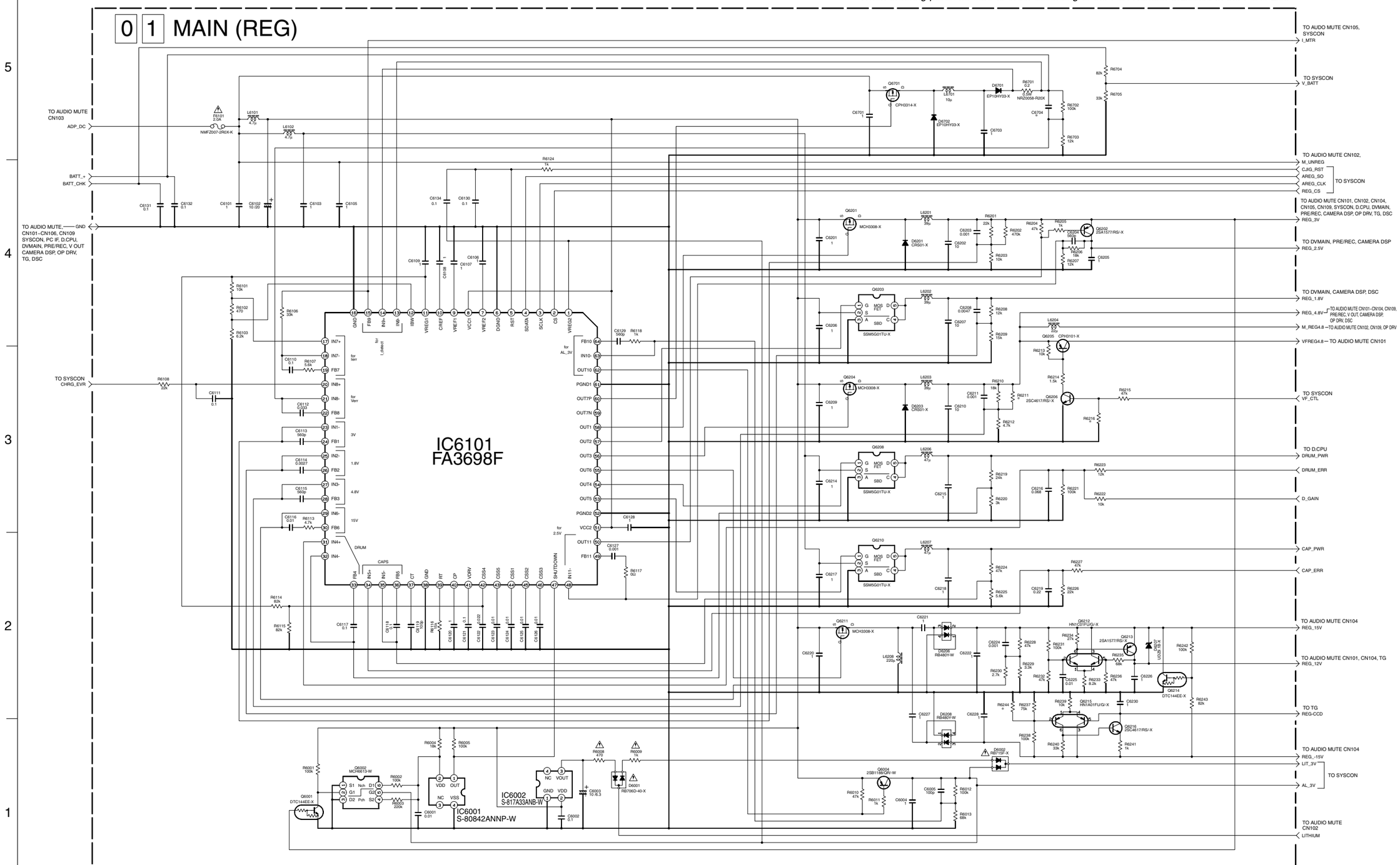
y20198001a_rev0

EXCHANGE PARTS LIST

	without DSC	with DSC
Q4802	*	2SC4617/RS/-X
Q4803	*	DTC144EE-X
Q4804	*	DTA144EE-X
Q4805	*	DTA143EE-X
R4825	*	2.2k
R4826	*	47k
R4846	*	0Ω

4.10 REG SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (⁎) is not used.

y10286001a_rev0

4.11 DSC SCHEMATIC DIAGRAM [GR-DVX507A/EG/EK, DVX509ED]

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

0 1 MAIN (DSC)

IC8001
TMS320DSC24GHK

IC8003
MBV160TE90PTA33
[FLASH_MEMORY]

IC8002
K4S641632E-TC1H

IC8004
S-80842ANNP-W

IC8007
MM1385EN-X

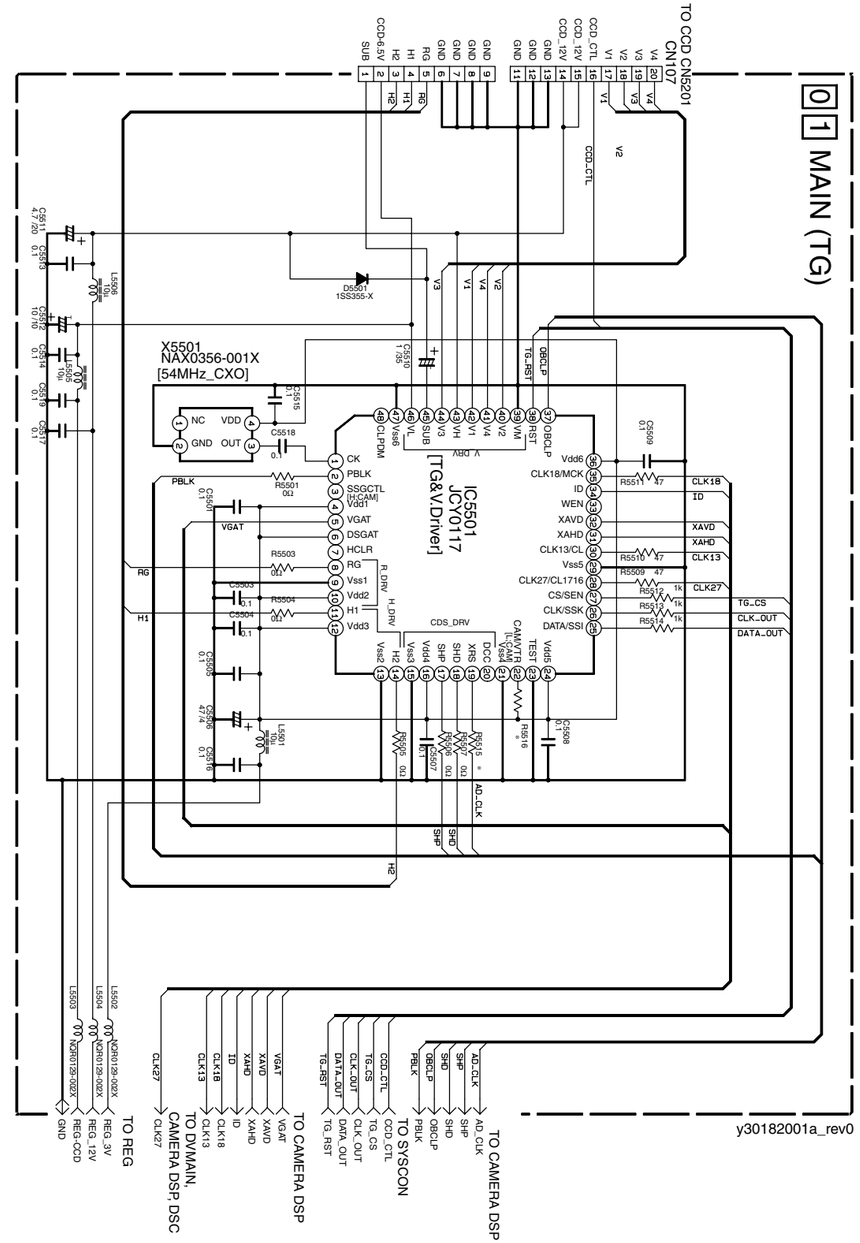
NOTE : The parts with marked (*) is not used.

y10287001a_rev0

4.12 TG AND IR/TALLY SCHEMATIC DIAGRAMS

- TG -

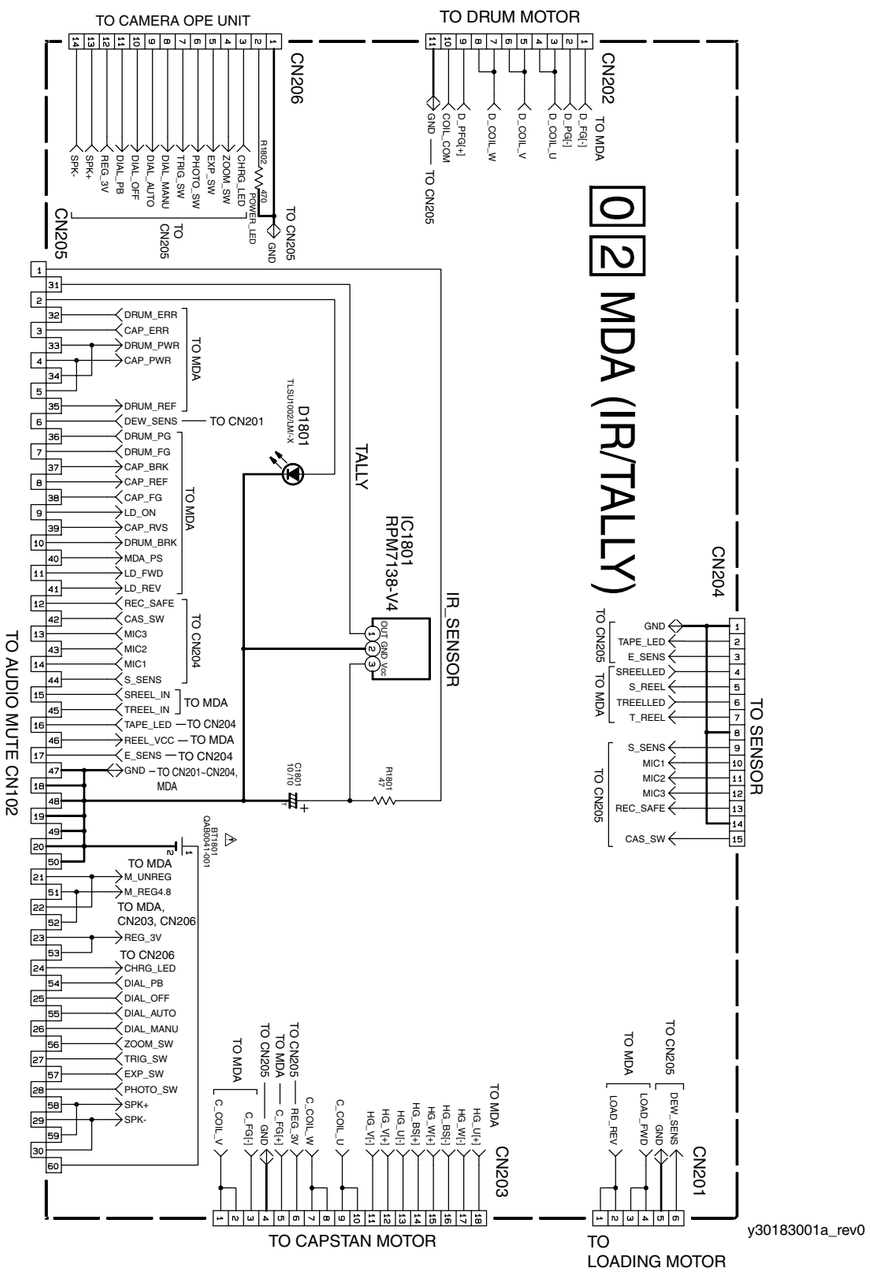
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

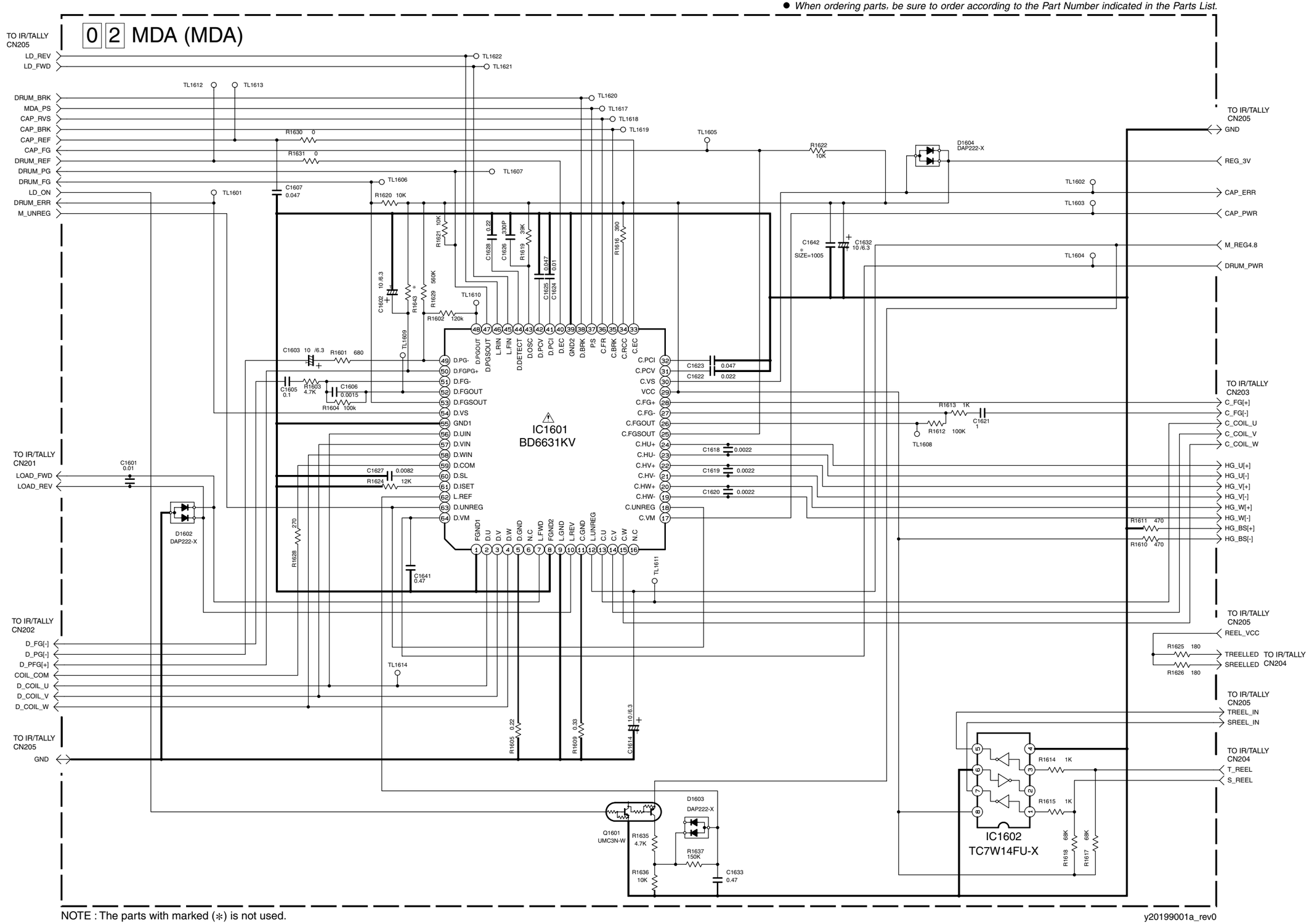
- IR/TALLY -

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



4.13 MDA SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

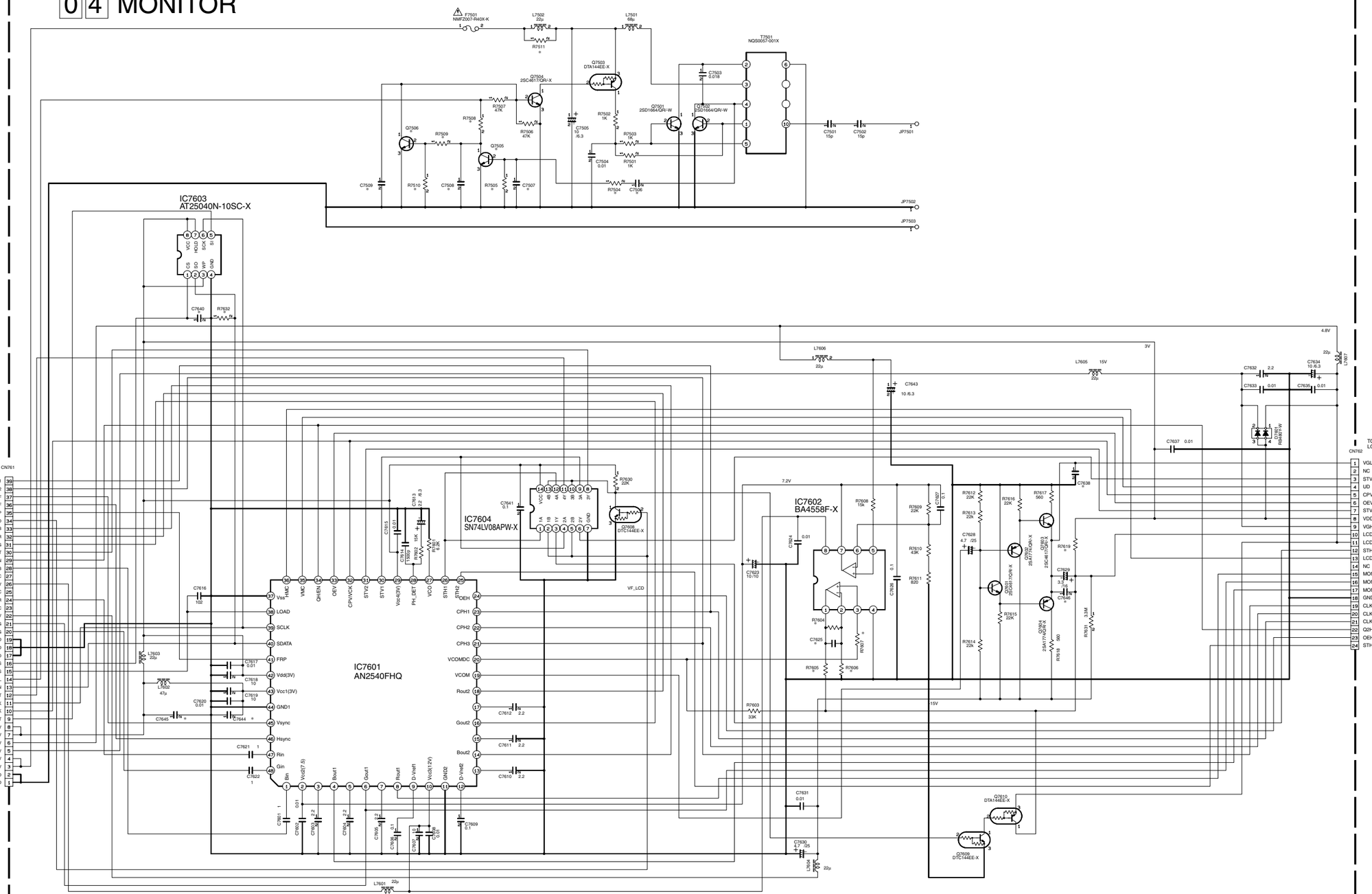


NOTE : The parts with marked (⁎) is not used.

y20199001a_rev0

4.14 MONITOR SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

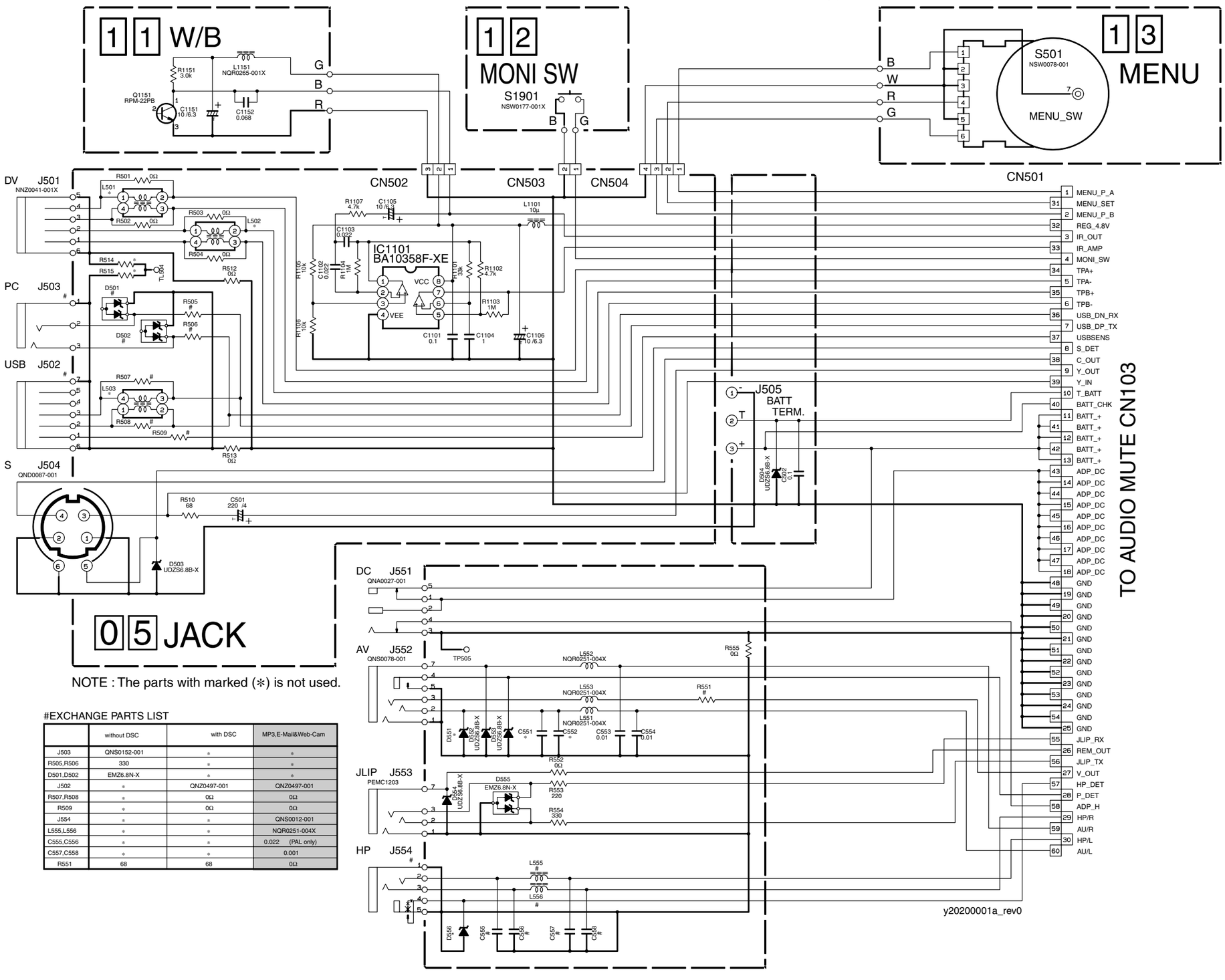


NOTE : The parts with marked (*) is not used.

y10289001a_rev0

4.15 JACK SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

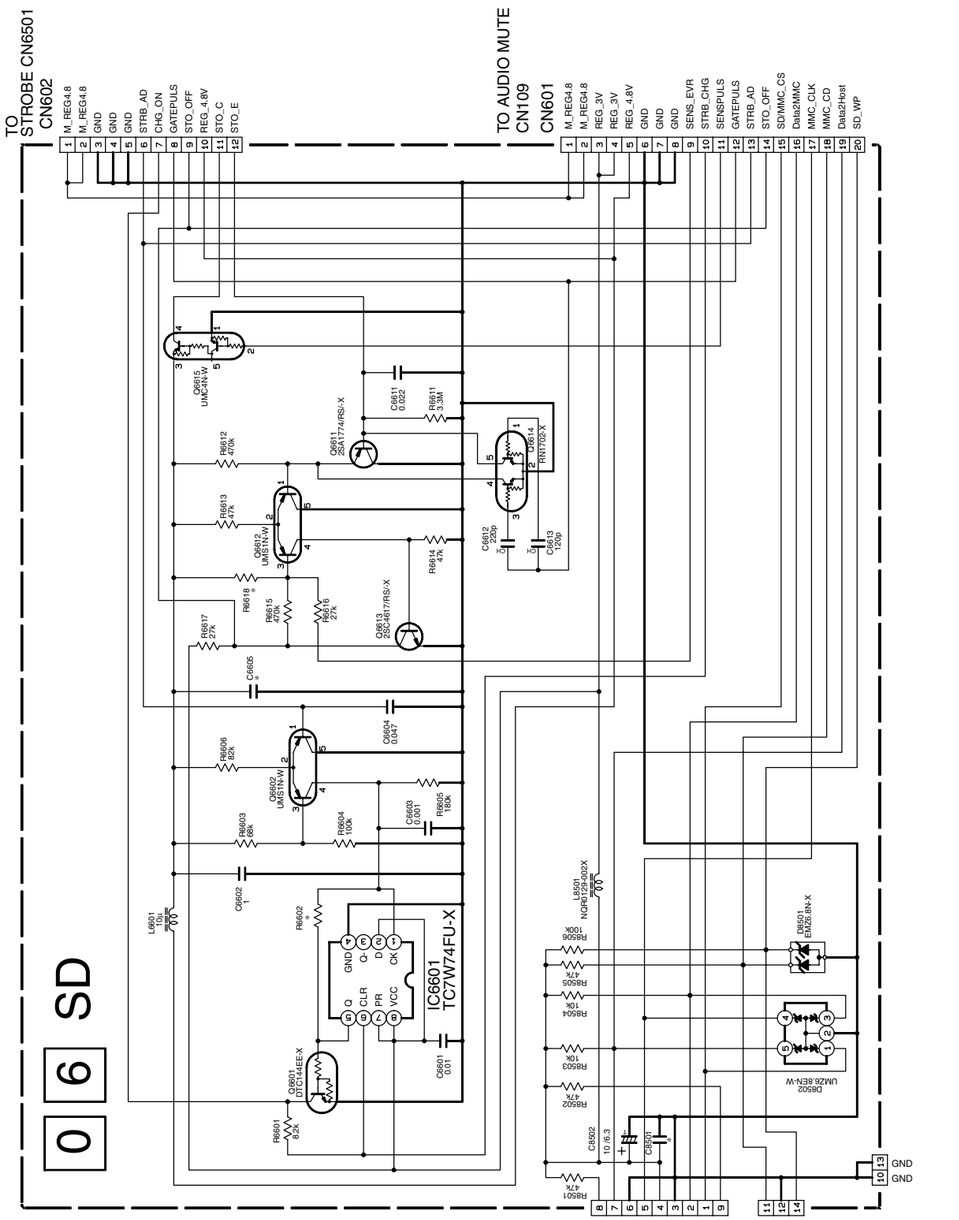
#EXCHANGE PARTS LIST

	without DSC	with DSC	MP3,E-Mail&Web-Cam
J503	QNS0152-001	*	*
R505,R506	330	*	*
D501,D502	EMZ6.8N-X	*	*
J502	*	QNZ0497-001	QNZ0497-001
R507,R508	*	0Ω	0Ω
R509	*	0Ω	0Ω
J554	*	*	QNS0012-001
L555,L556	*	*	NQR0251-004X
C555,C556	*	*	0.022 (PAL only)
C557,C558	*	*	0.001
R551	68	68	0Ω

4.16 SD AND STROBE SCHEMATIC DIAGRAMS [GR-DVX507A/EG/EK, GR-DVX509ED]

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

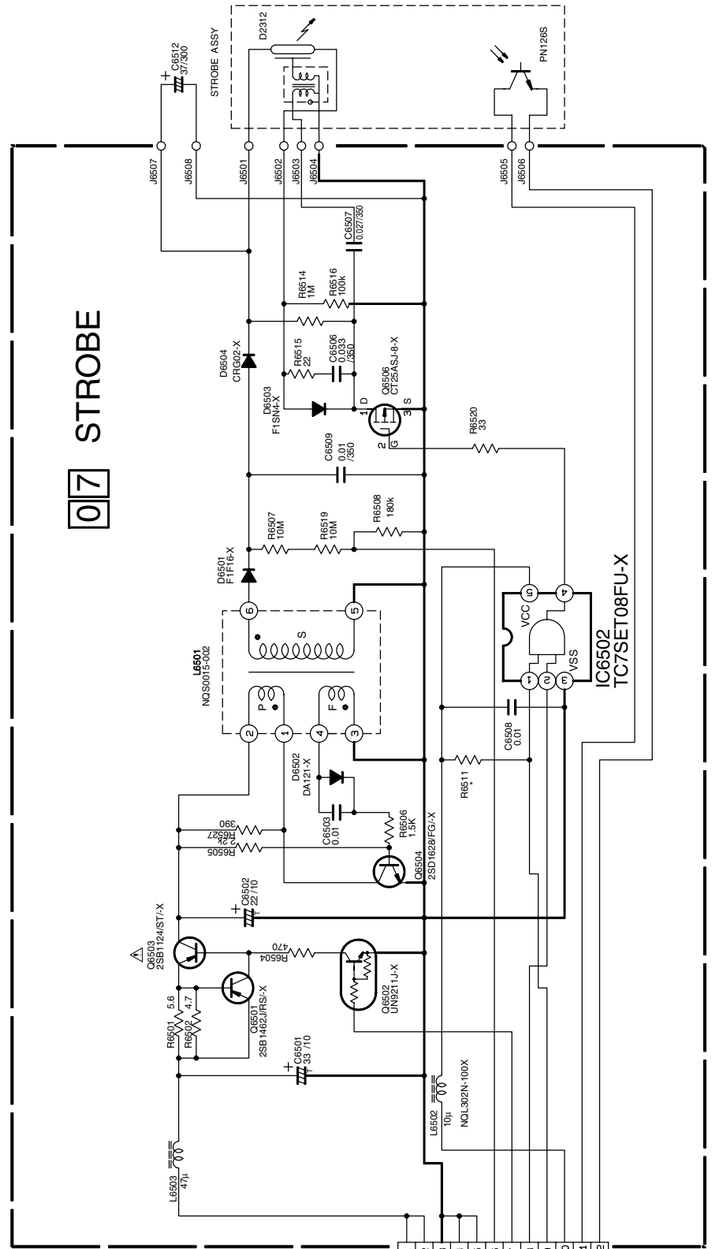
- SD -



NOTE : The parts with marked (*) is not used.

y30186001a_rev0

- STROBE -

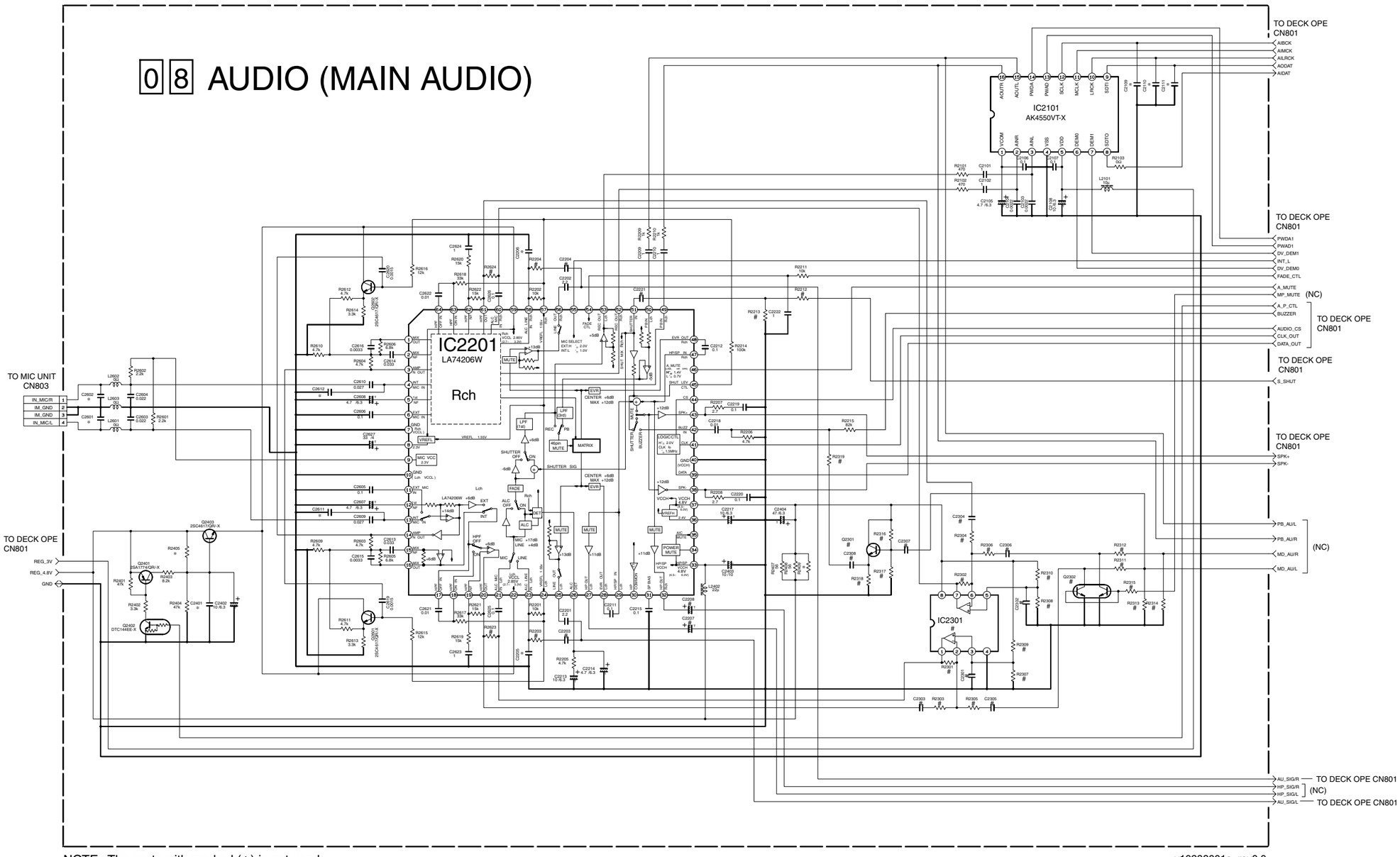


NOTE : The parts with marked (*) is not used.

y30188001a_rev0

4.17 MAIN AUDIO SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

EXCHANGE PARTS LIST

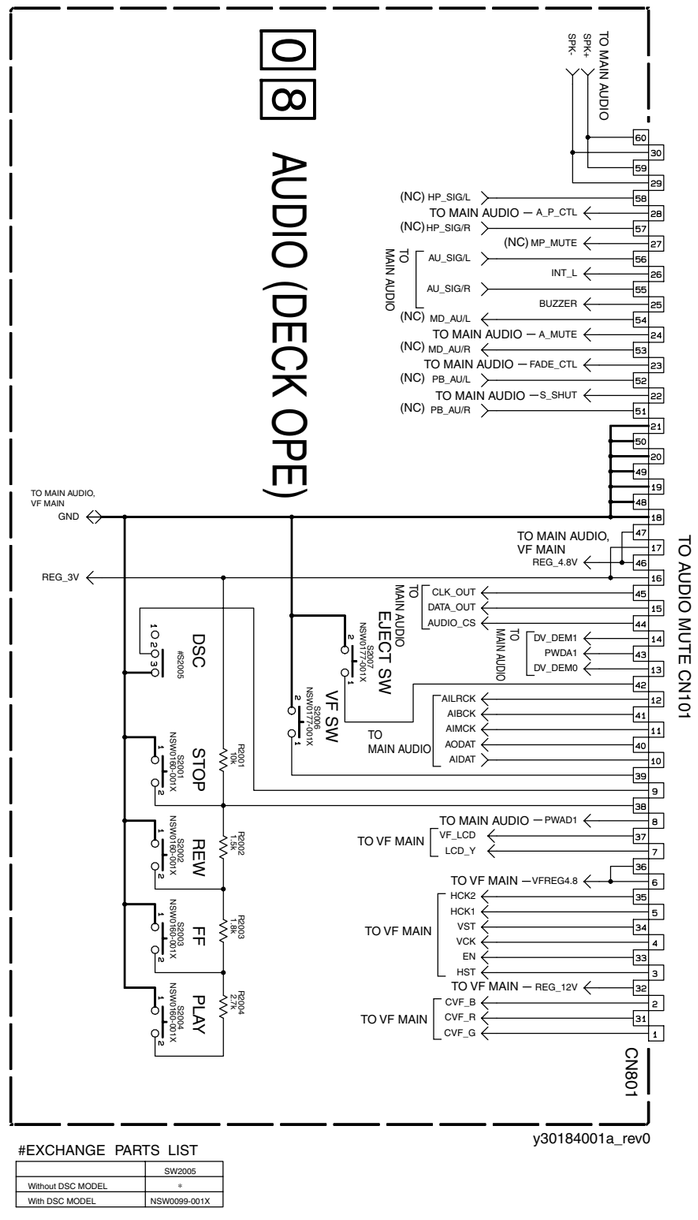
	Normal	MP3, E-Mail & Web-CAMERA without ANA.IN	MP3, E-Mail & Web-CAMERA with ANA.IN		Normal	MP3, E-Mail & Web-CAMERA without ANA.IN	MP3, E-Mail & Web-CAMERA with ANA.IN
R2203,R2204	*	*	47k	R2316	*	100k	100k
C2203,C2204	*	*	0.47	R2317	*	100k	100k
R2212	0 Ω	10k	10k	R2318	*	1k	1k
R2213	*	680	680	R2319	*	47k	47k
C2221	0 Ω	0.01	0.01	C2301,C2302	*	1	1
C2207,C2208	*	104L3	104L3	C2303,C2304	*	1	1
R2301,R2302	*	18k	18k	C2305,C2306	*	1	1
R2303,R2304	*	18k	18k	C2307	*	0.1	0.1
R2305,R2306	*	180k	180k	C2308	*	1	1
R2307,R2308	*	47k	47k	Q2301	*	2SC4617QR/-X	2SC4617QR/-X
R2309,R2310	*	47k	47k	Q2302	*	UMX18N-W	UMX18N-W
R2311,R2312	*	10k	10k	IC2301	*	BA4510FV-X	BA4510FV-X
R2313,R2314	*	560k	560k	R2623,R2624	0 Ω	*	*
R2315	*	3.3k	3.3k				

y10288001a_rev0.0

4.18 DECK OPE AND VF MAIN SCHEMATIC DIAGRAMS

- DECK OPE -

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

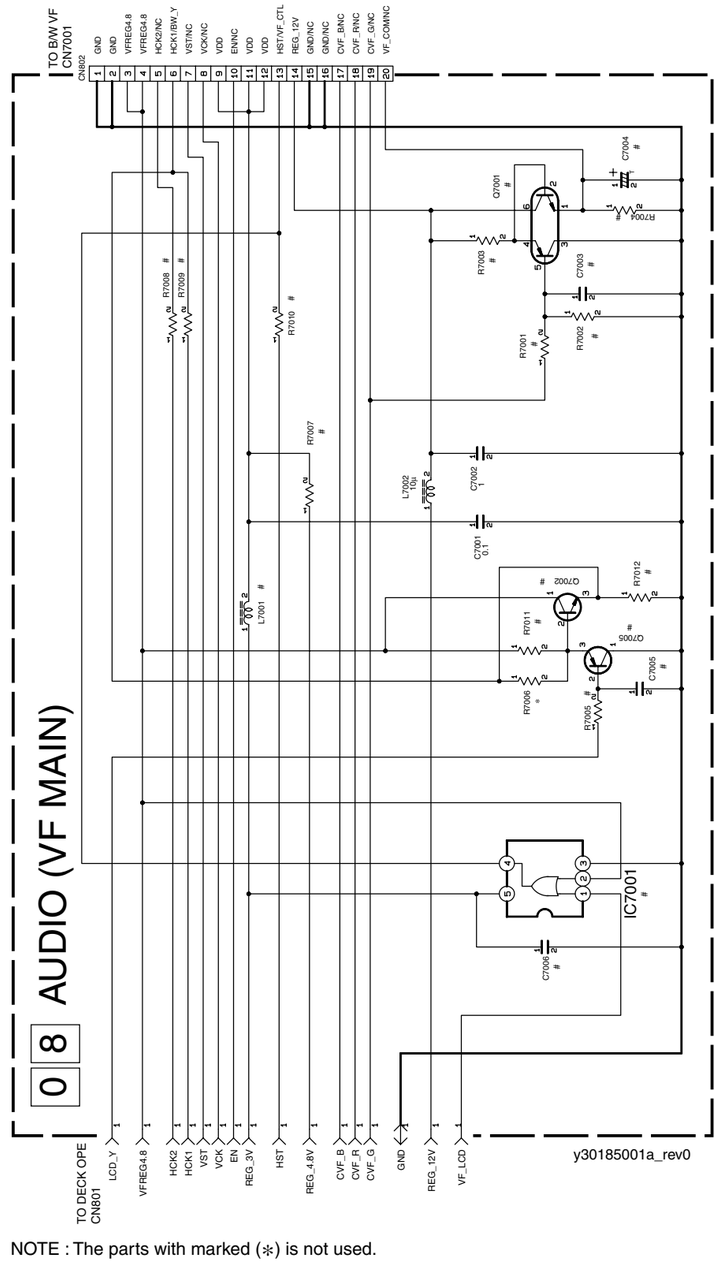


#EXCHANGE PARTS LIST

	SW2005
Without DSC MODEL	*
With DSC MODEL	NSW0099-001X

- VF MAIN -

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (⁎) is not used.

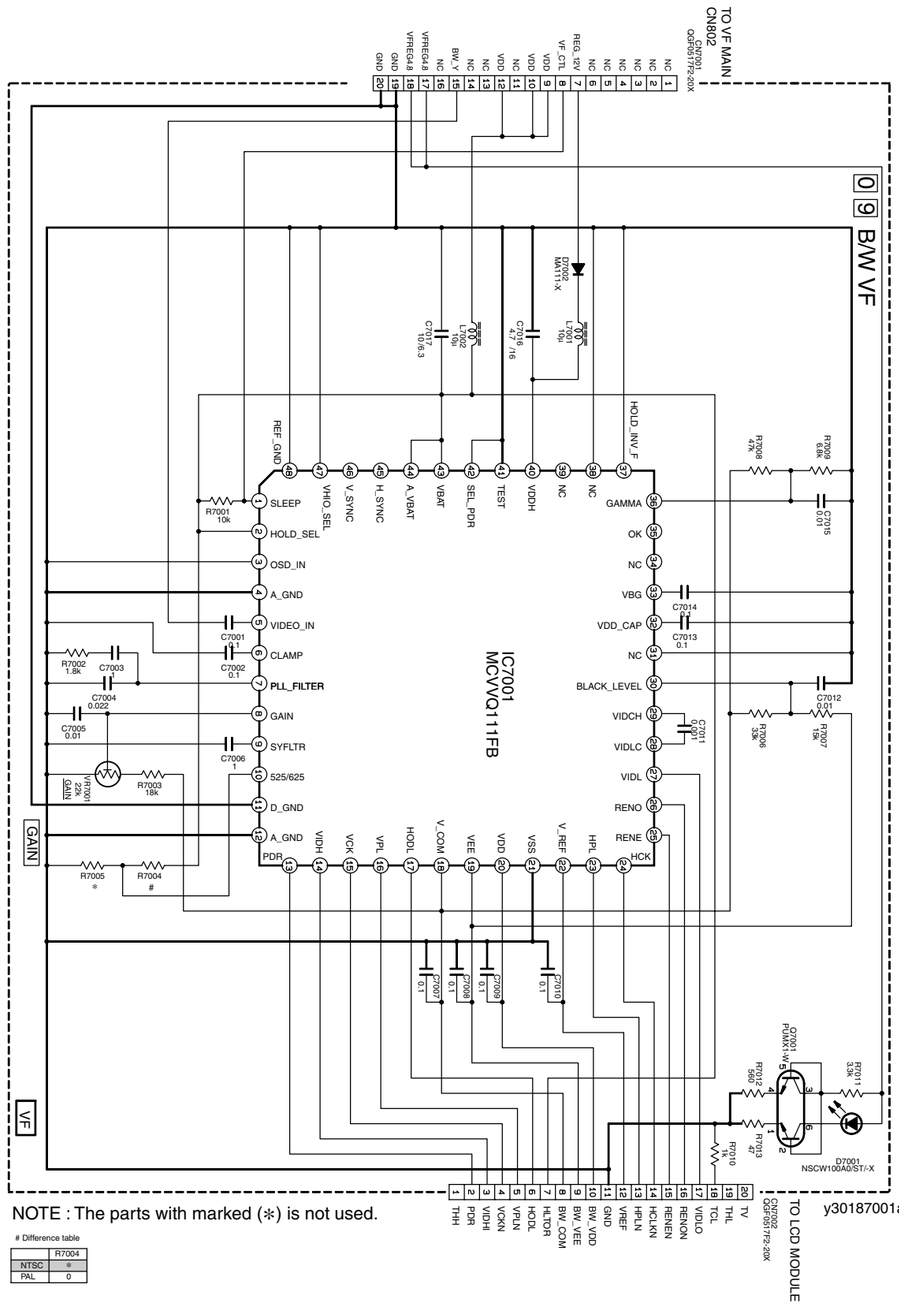
#EXCHANGE PARTS LIST

	R7001	R7002	R7003	R7004	R7005	R7007	R7008	R7009	R7010	R7011	R7012	L7001	C7003	C7004	C7005	C7006	IC7001	Q7001	Q7002	Q7005
COLOR VF MODEL	18K	330K	220K	39K	*	*	0	0	0	*	*	10	2.2	10/10	*	*	*	UMZ1N-W	*	*
B/W VF MODEL	*	*	*	*	270	0	*	*	*	5.6K	1K	*	*	*	220p	0.1	TC7SH32FU-X	*	2SC4617/QR/-X	2SA1774/QR/-X

4.19 B/W VF AND CCD SCHEMATIC DIAGRAMS

- B/W VF -

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

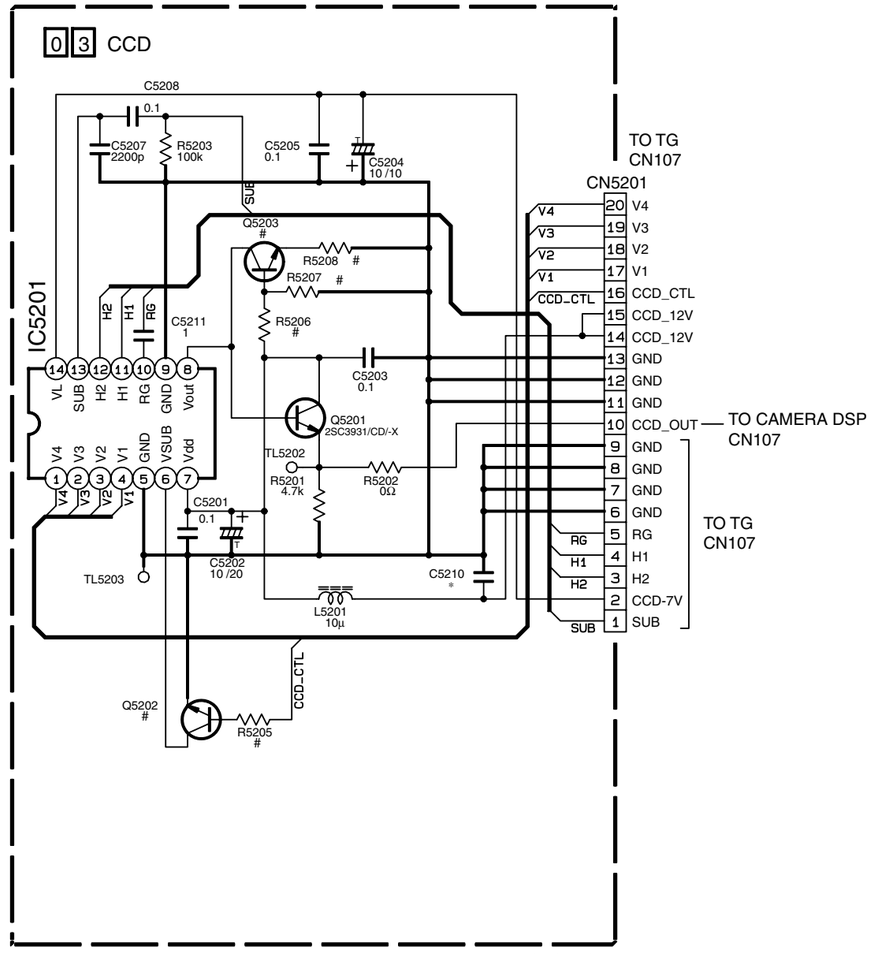
y30187001a_rev0

Difference table

	R7004
NTSC	*
PAL	0

- CCD -

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
● *IC5201 is incorporated in the CCD base assembly. When IC5201 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.*



NOTE : The parts with marked (*) is not used.

y40097001a_rev0

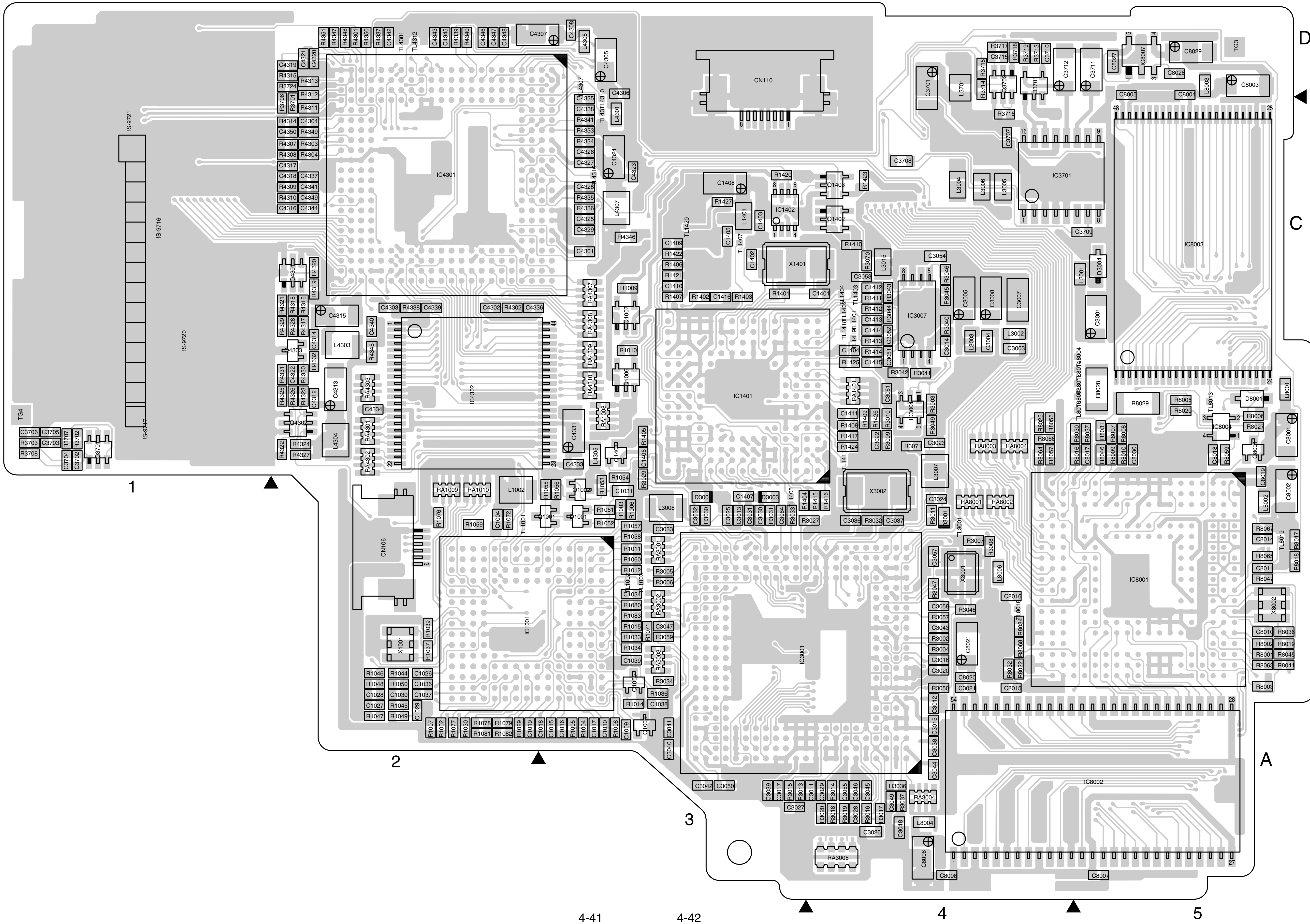
EXCHANGE PARTS LIST

	without DSC	DSC(680k/800k)	DSC(MEGA)
Q5202	*	2SC4081/RS/-X	2SC4081/RS/-X
Q5203	*	*	2SC3931/CD/-X
R5205	*	4.7k	4.7k
R5206	*	*	10k
R5207	*	*	12k
R5208	*	*	1k

4.20 MAIN CIRCUIT BOARD

<01> MAIN PWB
YB10373-01-01

FOIL SIDE (B)



COMPONENT PARTS LOCATION GUIDE <MAIN/YB10373-01-01>

REF.NO.	LOCATION		
CAPACITOR			
C1002	A	C	2A
C1003	A	C	2B
C1004	B	C	2B
C1006	A	C	3A
C1007	A	C	2B
C1009	B	C	3A
C1010	B	C	3A
C1015	B	C	3A
C1016	B	C	3A
C1017	B	C	3A
C1018	B	C	3A
C1019	B	C	2A
C1020	A	C	3A
C1021	A	C	3A
C1023	A	C	2B
C1026	B	C	2A
C1027	B	C	2A
C1028	B	C	2A
C1029	B	C	2A
C1030	B	C	2A
C1031	B	C	3B
C1034	B	C	3B
C1036	B	C	2A
C1037	B	C	2A
C1038	B	C	3A
C1039	B	C	3A
C1301	A	C	5A
C1302	A	C	5A
C1303	A	C	5A
C1304	A	C	5A
C1305	A	C	5A
C1306	A	C	5A
C1307	A	C	5A
C1401	B	C	4C
C1402	B	C	3C
C1403	B	C	3C
C1404	B	C	4C
C1405	B	C	3C
C1406	B	C	3B
C1407	B	C	3B
C1408	B	C	3C
C1409	B	C	3C
C1410	B	C	3C
C1411	B	C	4B
C1412	B	C	4C
C1413	B	C	4C
C1414	B	C	4C
C1415	B	C	4C
C1416	B	C	3C
C3001	B	C	5C
C3003	B	C	4C
C3004	B	C	4C
C3005	B	C	4C
C3007	B	C	4C
C3008	B	C	4C
C3011	B	C	4A
C3012	B	C	4A
C3013	B	C	3B
C3014	B	C	4C
C3015	B	C	4A
C3016	B	C	4A
C3017	B	C	3A
C3020	B	C	4A
C3021	B	C	4A
C3022	B	C	4B
C3023	B	C	4B
C3024	B	C	4B
C3025	B	C	3B
C3026	B	C	4A
C3027	B	C	3A
C3028	B	C	4A
C3029	B	C	4A
C3030	B	C	3B
C3031	B	C	3B
C3032	B	C	3B
C3033	B	C	3B
C3036	B	C	4B
C3037	B	C	4B
C3038	B	C	4A
C3039	B	C	3A
C3040	B	C	3A
C3041	B	C	3A
C3042	B	C	3A
C3043	B	C	4B
C3044	B	C	4A
C3045	B	C	4A
C3046	B	C	4A
C3047	B	C	3B
C3048	B	C	4A
C3049	B	C	4A
C3050	B	C	3A
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CN103	A	C	4A
CN104	A	C	3B
CN105	A	C	4A
CN106	B	C	2B
CN107	A	C	1B
CN108	A	C	1C
CN109	A	C	5C
CN110	B	C	3C
DIODE			
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D1301	A	C	5B
D1302	A	C	5A
D3001	B	C	4B
D3002	B	C	3B
D3003	B	C	3B
D3004	B	C	5C
D3701	B	C	4D
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D6002	A	C	3C
D6201	A	C	3B
D6203	A	C	3A
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D6207	A	C	4B
D6208	A	C	4B
D6701	A	C	4B
D6702	A	C	4B
D8001	B	C	5B
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F6101	A	C	5B
IC			
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IC1002	A	C	3B
IC1003	A	C	2B
IC1004	A	C	3A
IC1005	A	C	3A
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IC1301	A	C	5A
IC1302	A	C	5A
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IC3004	B	C	4B
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IC4301	B	C	2C
IC4302	B	C	2B
IC4802	A	C	1D
IC4803	A	C	1D
IC4804	A	C	3D
IC4807	A	C	3C
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IC5501	A	C	2C
IC6001	A	C	5D
IC6002	A	C	5C
IC6101	A	C	3B
IC8001	B	C	5B
IC8002	B	C	5A
IC8003	B	C	5C
IC8004	B	C	5B
IC8007	B	C	5D
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L3001	B	C	5C
L3002	B	C	4C
L3003	B	C	4C
L3004	B	C	4C
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L8002	B	C	5B
L8003	B	C	5D
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Q1401	B	C	3B
Q1402	B	C	4C
Q1403	B	C	4C
Q2701	A	C	5A
Q3701	B	C	1B
Q3702	B	C	4D
Q4301	B	C	2C
Q4302	B	C	2B
Q4303	B	C	2C
Q4801	A	C	1C
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Q6213	A	C	4B
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Q6215	A	C	4A
Q6216	A	C	4A
Q6701	A	C	4B
Q8001	B	C	5B
RESISTOR			
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R1002	B	C	2A
R1003	B	C	3B
R1004	B	C	3A
R1005	B	C	3A
R1006	B	C	3B
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R1008	B	C	3A
R1009	B	C	3C
R1010	B	C	3C
R1011	B	C	3B
R1012	B	C	3B
R1014	B	C	3A
R1015	B	C	3B
R1016	A	C	2A

COMPONENT PARTS LOCATION GUIDE <MAIN/YB10373-01-01> <2/2>

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R1019	A	C	3A	R1426	B	C	4B	R3718	B	C	4D	R4820	A	C	3D	R6108	A	C	4B	R8031	B	C	5B	TL8018	B	C	4B
R1020	A	C	2B	R1427	B	C	3C	R3719	B	C	4D	R4821	A	C	2D	R6113	A	C	3B	R8032	B	C	4A	TL8019	B	C	5B
R1021	A	C	2A	R2701	A	C	4A	R3724	B	C	2D	R4822	A	C	3C	R6114	A	C	3B	R8034	B	C	4B	X1001	B	C	2A
R1022	A	C	3B	R2702	A	C	4A	R4201	A	C	2C	R4823	A	C	3C	R6115	A	C	3B	R8036	B	C	5B	X1002	A	C	3A
R1023	A	C	3A	R2703	A	C	5A	R4202	A	C	2C	R4824	A	C	2C	R6116	A	C	3B	R8037	B	C	5B	X1401	B	C	3C
R1024	A	C	3A	R2704	A	C	4A	R4203	A	C	1C	R4825	A	C	3C	R6117	A	C	3B	R8041	B	C	5A	X3001	B	C	4B
R1026	A	C	2A	R2705	A	C	5A	R4205	A	C	1C	R4826	A	C	3C	R6118	A	C	3C	R8045	B	C	5A	X3002	B	C	4B
R1027	A	C	3B	R3002	B	C	4A	R4206	A	C	1C	R4827	A	C	3C	R6124	A	C	3C	R8046	B	C	5B	X5501	A	C	2C
R1028	A	C	3A	R3003	B	C	4B	R4207	A	C	1C	R4828	A	C	3C	R6201	A	C	3A	R8047	B	C	5B	X8002	B	C	5B
R1029	B	C	2A	R3004	B	C	4A	R4208	A	C	1C	R4829	A	C	3C	R6202	A	C	3A	R8056	B	C	4B				
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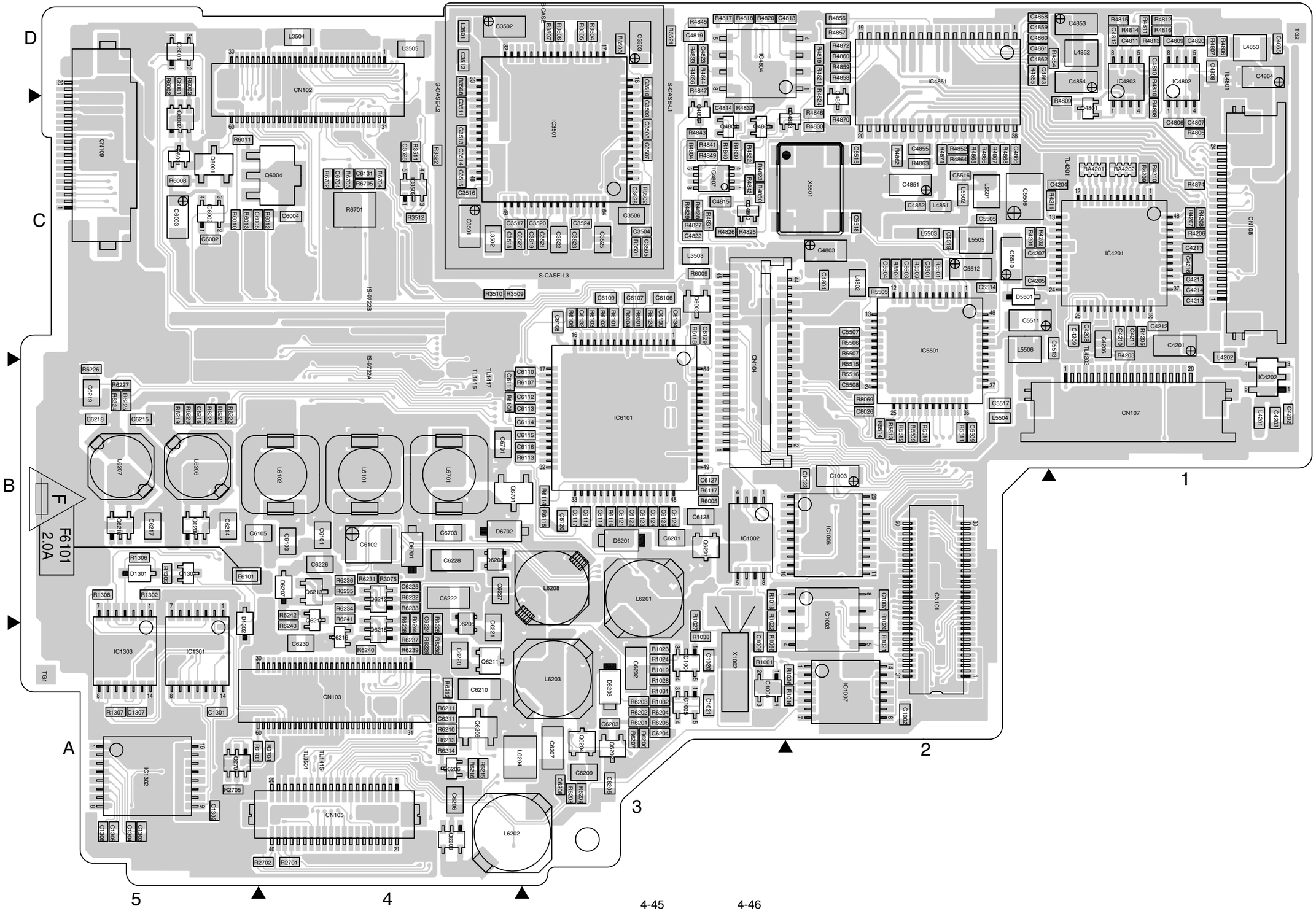
R1072	B	C	2B	R3044	B	C	4C	R4328	B	C	2C	R4866	A	C	2C	R6233	A	C	4B	RA8002	B	C	4B				
R1076	B	C	2B	R3045	B	C	4C	R4329	B	C	2C	R4867	A	C	2C	R6234	A	C	4B	RA8003	B	C	4B				
R1077	B	C	2A	R3046	B	C	4C	R4330	B	C	2B	R4868	A	C	2C	R6235	A	C	4B	RA8004	B	C	4B				
R1078	B	C	2A	R3047	B	C	4B	R4331	B	C	2B	R4870	A	C	2C	R6236	A	C	4B	**OTHER**							
R1079	B	C	2A	R3048	B	C	4B	R4332	B	C	2C	R4871	A	C	2C	R6237	A	C	4A	TL1001	B	C	2B				
R1080	B	C	3B	R3049	B	C	4B	R4333	B	C	3C	R4872	A	C	2D	R6238	A	C	4A	TL1002	B	C	3B				
R1081	B	C	2A	R3050	B	C	4A	R4334	B	C	3C	R4874	A	C	1C	R6239	A	C	4A	TL1003	B	C	3B				
R1082	B	C	2A	R3057	B	C	4B	R4335	B	C	3C	R5501	A	C	2C	R6240	A	C	4A	TL1401	B	C	4C				
R1083	B	C	3B	R3059	B	C	3A	R4336	B	C	3C	R5503	A	C	2C	R6241	A	C	4B	TL1402	B	C	4C				
R1302	A	C	5B	R3070	B	C	4C	R4337	B	C	2D	R5504	A	C	2C	R6242	A	C	4B	TL1403	B	C	4C				
R1305	A	C	5B	R3071	B	C	4B	R4338	B	C	2C	R5505	A	C	2C	R6243	A	C	4A	TL1404	B	C	4C				
R1306	A	C	5B	R3075	A	C	4B	R4339	B	C	2D	R5506	A	C	2C	R6244	A	C	4A	TL1405	B	C	3B				
R1307	A	C	5A	R3501	A	C	3C	R4340	B	C	2D	R5507	A	C	2C	R6701	A	C	4C	TL1407	B	C	3C				
R1308	A	C	5B	R3502	A	C	3C	R4341	B	C	3C	R5509	A	C	2B	R6702	A	C	4C	TL1411	B	C	4B				
R1401	B	C	3C	R3503	A	C	3D	R4345	B	C	2C	R5510	A	C	2B	R6703	A	C	4C	TL1415	A	C	4A				
R1402	B	C	3C	R3504	A	C	3D	R4346	B	C	3C	R5511	A	C	2B	R6704	A	C	4C	TL1416	A	C	4B				
R1403	B	C	3C	R3505	A	C	3D	R4347	B	C	2D	R5512	A	C	2B	R6705	A	C	4C	TL1417	A	C	4B				
R1404	B	C	3B	R3506	A	C	3D	R4348	B	C	2D	R5513	A	C	2B	R8001	B	C	5A	TL1418	B	C	4C				
R1405	B	C	3B	R3507	A	C	3D	R4349	B	C	2C	R5514	A	C	2B	R8002	B	C	5A	TL1419	B	C	4C				
R1406	B	C	3C	R3508	A	C	4D	R4350	B	C	2D	R5515	A	C	2B	R8003	B	C	5A	TL1420	B	C	3C				
R1407	B	C	3C	R3509	A	C	4C	R4351	B	C	2D	R5516	A	C	2B	R8005	B	C	5B	TL3001	B	C	4B				
R1408	B	C	4B	R3510	A	C	4C	R4804	A	C	3C	R6001	A	C	3C	R8006	B	C	5B	TL3501	A	C	4A				
R1409	B	C	4B	R3511	A	C	4C	R4805	A	C	1C	R6002	A	C	5D	R8007	B	C	5B	TL4201	A	C	1C				
R1410	B	C	4C	R3512	A	C	4C	R4806	A	C	1D	R6003	A	C	5D	R8008	B	C	5B	TL4202	A	C	1C				
R1411	B	C	4C	R3521	A	C	3D	R4807	A	C	1D	R6004	A	C	3C	R8009	B	C	5B	TL4301	B	C	2D				
R1412	B	C	4C	R3522	A	C	4C	R4808	A	C	1C	R6005	A	C	3B	R8010	B	C	5B	TL4307	B	C	3D				
R1413	B	C	4C	R3701	B	C	2C	R4809	A	C	1C	R6008	A	C	5C	R8016	B	C	5B	TL4310	B	C	3C				
R1414	B	C	4C	R3702	B	C	1B	R4810	A	C	1D	R6009	A	C	3C	R8017	B	C	5B	TL4311	B	C	3C				
R1415	B	C	4B	R3703	B	C	1B	R4811	A	C	1D	R6010	A	C	5C	R8018	B	C	5B	TL4312	B	C	2D				
R1416	B	C	4B	R3706	B	C	2C	R4812	A	C	1D	R6011	A	C	5C	R8019	B	C	5A	TL4316	B	C	3C				
R1417	B	C	4B	R3707	B	C	1B	R4813	A	C	1D	R6012	A	C	4C	R8020	B	C	5B	TL4801	A	C	1D				
R1420	B	C	3C	R3708	B	C	1B	R4814	A	C	1D	R6013	A	C	5C	R8022	B	C	4A	TL8003	B	C	5B				
R1421	B	C	3C	R3713	B	C	4D	R4815	A	C	1D	R6101	A	C	3C	R8025	B	C	4B	TL8004	B	C	5C				
R1422	B	C	3C	R3714	B	C	4D	R4816	A	C	1D	R6102	A	C	3C	R8027	B	C	5B	TL8013	B	C	5B				
R1423	B	C	4C	R3715	B	C	4D	R4817	A	C	3D	R6103	A	C	3C	R8028	B	C	5B	TL8014	B	C	5B				
R1424	B	C	4B	R3716	B	C	4C	R4818	A	C	3D	R6106	A	C	3C	R8029	B	C	5B	TL8016	B	C	5B				

<01> MAIN
YB10373-01-01

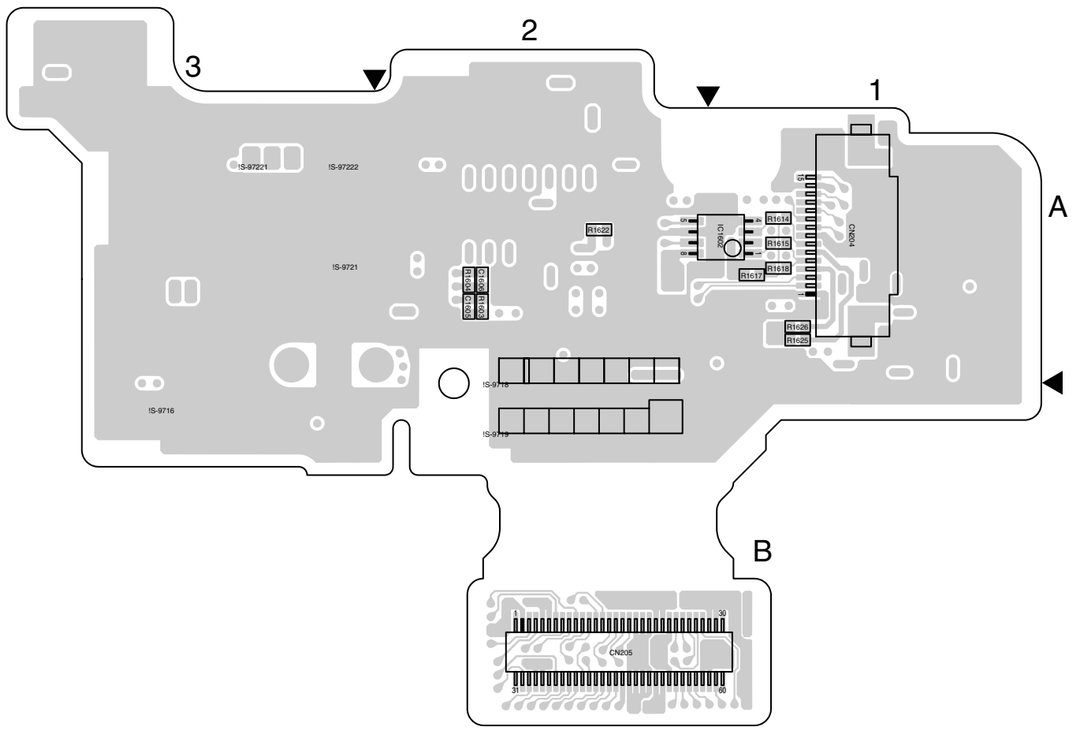
COMPONENT SIDE (A)



4.21 MDA CIRCUIT BOARD

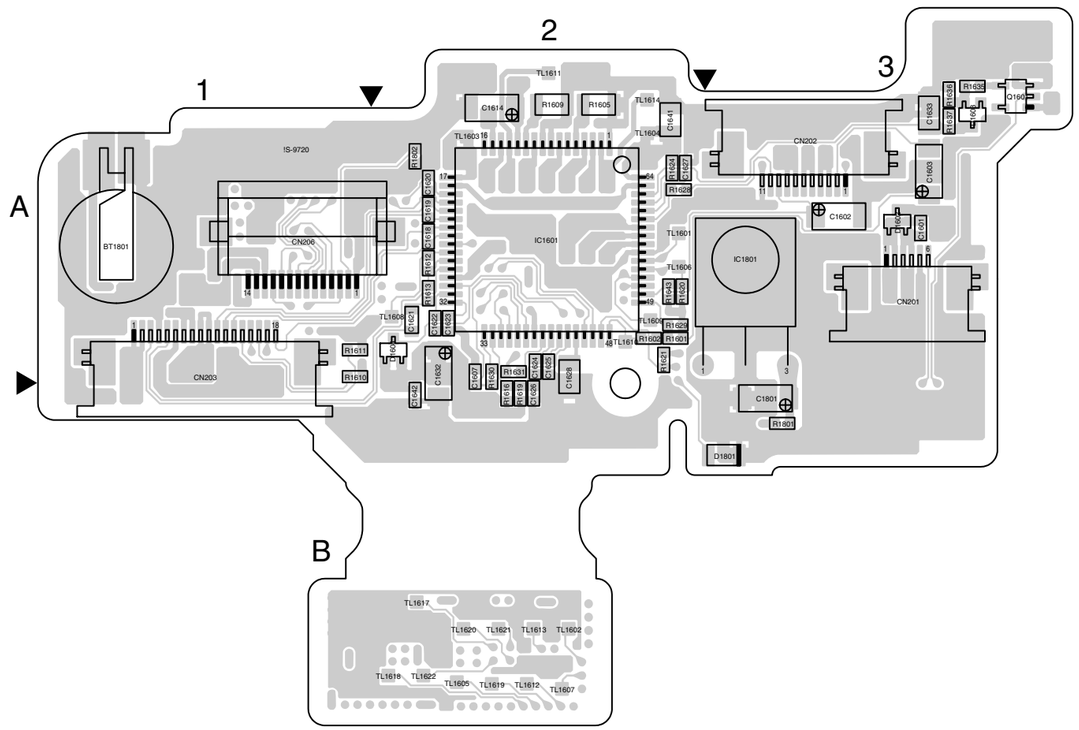
FOIL SIDE (B)

<02> MDA PWB
YB10376-01-01



COMPONENT SIDE (A)

<02> MDA PWB
YB10376-01-01



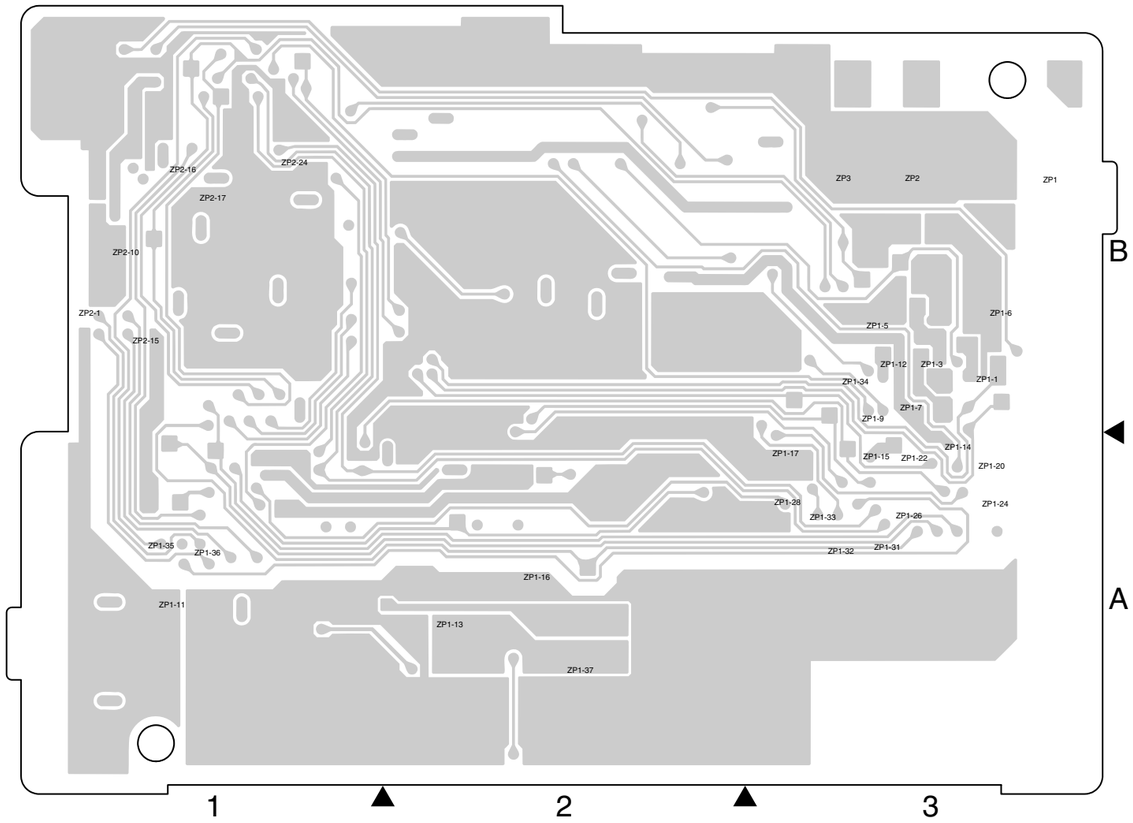
COMPONENT PARTS LOCATION GUIDE <MDA/YB10376-01-01>

REF.NO.	LOCATION		
CAPACITOR			
C1601	A	C	3A
C1602	A	C	3A
C1603	A	C	3A
C1605	B	C	2A
C1606	B	C	2A
C1607	A	C	2B
C1614	A	C	2A
C1618	A	C	2A
C1619	A	C	2A
C1620	A	C	2A
C1621	A	C	2A
C1622	A	C	2A
C1623	A	C	2A
C1624	A	C	2B
C1625	A	C	2B
C1626	A	C	2B
C1627	A	C	2A
C1628	A	C	2B
C1632	A	C	2B
C1633	A	C	3A
C1641	A	C	2A
C1642	A	C	2B
C1801	A	C	3B
CONNECTOR			
CN201	A	C	3A
CN202	A	C	3A
CN203	A	C	1B
CN204	B	C	1A
CN205	B	C	2B
CN206	A	C	1A
DIODE			
D1602	A	C	3A
D1603	A	C	3A
D1604	A	C	2B
D1801	A	C	3B
IC			
IC1601	A	C	2A
IC1602	B	C	1A
IC1801	A	D	3A
TRANSISTOR			
Q1601	A	C	3A
RESISTOR			
R1601	A	C	2A
R1602	A	C	2A
R1603	B	C	2A
R1604	B	C	2A
R1605	A	C	2A
R1609	A	C	2A
R1610	A	C	1B
R1611	A	C	1B
R1612	A	C	2A
R1613	A	C	2A
R1614	B	C	1A
R1615	B	C	1A
R1616	A	C	2B
R1617	B	C	1A
R1618	B	C	1A
R1619	A	C	2B
R1620	A	C	2A
R1621	A	C	2B
R1622	B	C	2A
R1624	A	C	2A
R1625	B	C	1A
R1626	B	C	1A
R1628	A	C	2A
R1629	A	C	2A
R1630	A	C	2B
R1631	A	C	2B
R1635	A	C	3A
R1636	A	C	3A
R1637	A	C	3A
R1643	A	C	2A
R1801	A	C	3B
R1802	A	C	2A
OTHER			
BT1801	A	C	1A
TL1601	A	C	2A
TL1602	A	C	2B
TL1602	A	C	3C
TL1603	A	C	2A
TL1604	A	C	2A
TL1605	A	C	2C
TL1605	A	C	3C
TL1606	A	C	2A
TL1607	A	C	2C
TL1607	A	C	3C
TL1608	A	C	2A
TL1609	A	C	2A
TL1610	A	C	2B
TL1611	A	C	2A
TL1612	A	C	2C
TL1612	A	C	3C
TL1613	A	C	2B
TL1613	A	C	3C
TL1614	A	C	2A
TL1617	A	C	2B
TL1617	A	C	3B
TL1618	A	C	2C
TL1618	A	C	3B
TL1619	A	C	2C
TL1619	A	C	3C
TL1620	A	C	2B
TL1620	A	C	3C
TL1621	A	C	2B
TL1621	A	C	3C
TL1622	A	C	2C
TL1622	A	C	3B

4.22 MONITOR CIRCUIT BOARD

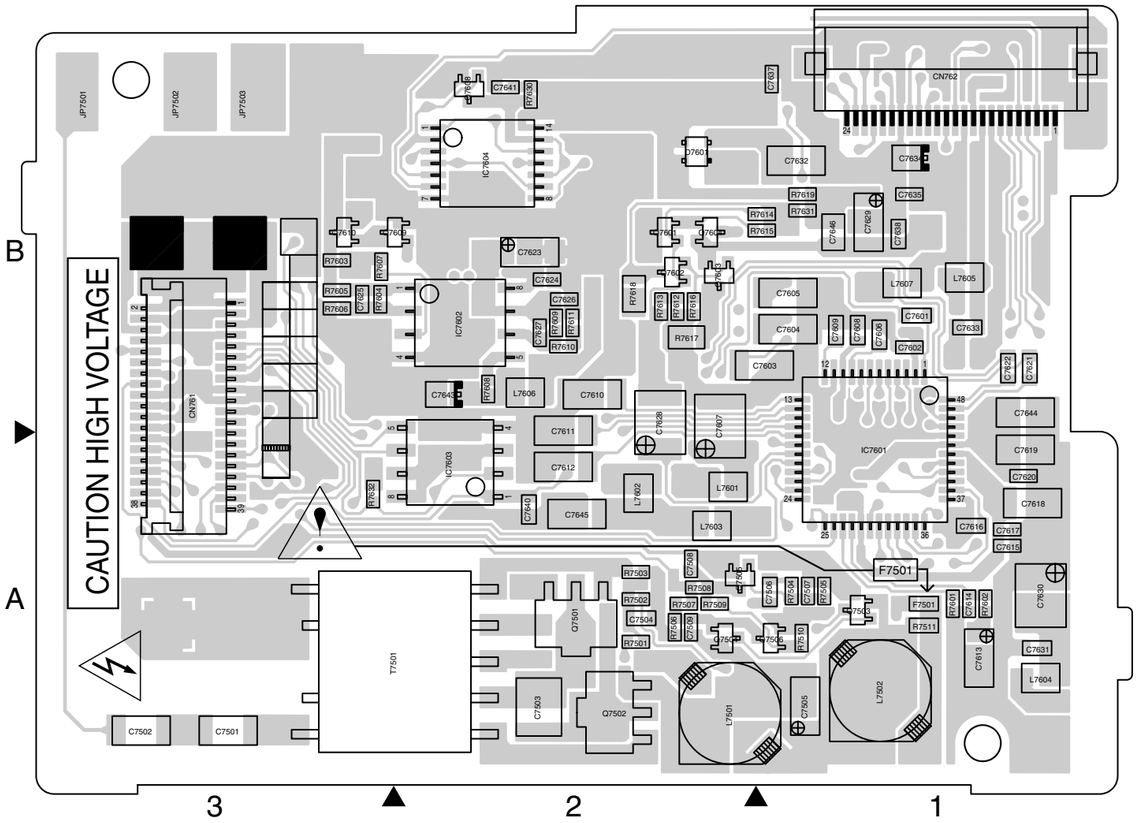
<04> MONITOR PWB
YB10381-01-01

FOIL SIDE (B)



COMPONENT SIDE (A)

<04> MONITOR PWB
YB10381-01-01



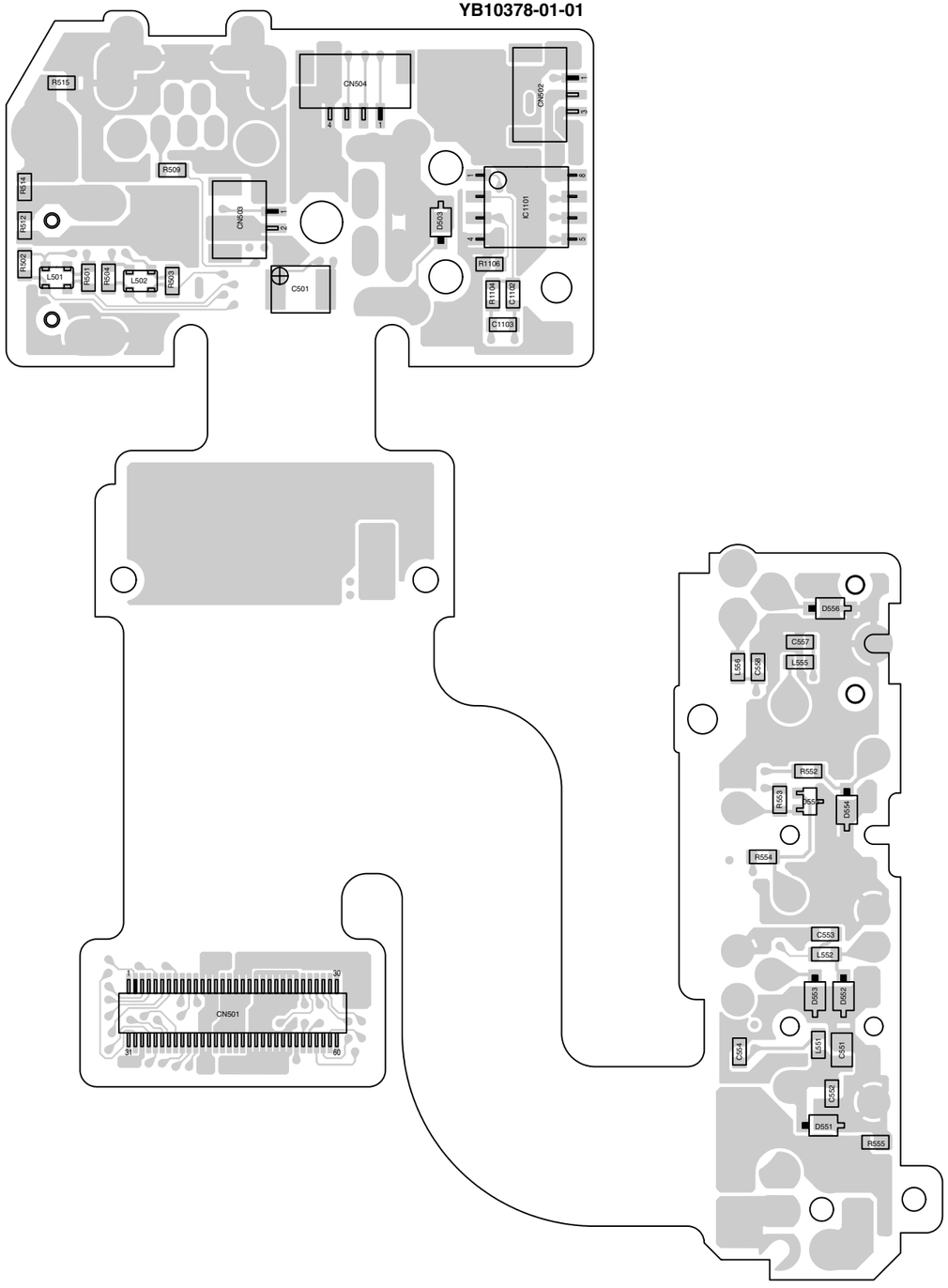
COMPONENT PARTS LOCATION GUIDE <MONITOR/YB10381-01-01>

REF.NO.	LOCATION		
CAPACITOR			
C7501	A	C	3A
C7502	A	C	3A
C7503	A	C	2A
C7504	A	C	2A
C7505	A	C	1A
C7506	A	C	1A
C7507	A	C	1A
C7508	A	C	2A
C7509	A	C	2A
C7601	A	C	1B
C7602	A	C	1B
C7603	A	C	1B
C7604	A	C	1B
C7605	A	C	1B
C7606	A	C	1B
C7607	A	C	1B
C7608	A	C	1B
C7609	A	C	1B
C7610	A	C	2B
C7611	A	C	2B
C7612	A	C	2A
C7613	A	C	1A
C7614	A	C	1A
C7615	A	C	1A
C7616	A	C	1A
C7617	A	C	1A
C7618	A	C	1A
C7619	A	C	1A
C7620	A	C	1A
C7621	A	C	1B
C7622	A	C	1B
C7623	A	C	2B
C7624	A	C	2B
C7625	A	C	2B
C7626	A	C	2B
C7627	A	C	2B
C7628	A	C	2B
C7629	A	C	1B
C7630	A	C	1A
C7631	A	C	1A
C7632	A	C	1B
C7633	A	C	1B
C7634	A	C	1B
C7635	A	C	1B
C7637	A	C	1B
C7638	A	C	1B
C7640	A	C	2A
C7641	A	C	2B
C7643	A	C	2B
C7644	A	C	1B
C7645	A	C	2A
C7646	A	C	1B
CONNECTOR			
CN761	A	C	3B
CN762	A	C	1B
DIODE			
D7601	A	C	2B
FUSE			
F7501	A	C	1A
IC			
IC7601	A	C	1A
IC7602	A	C	2B
IC7603	A	C	2A
IC7604	A	C	2B
COIL			
L7501	A	C	1A
L7502	A	C	1A
L7601	A	C	1A
L7602	A	C	2A
L7603	A	C	1A
L7604	A	C	1A
L7605	A	C	1B
L7606	A	C	2B
L7607	A	C	1B
TRANSISTOR			
Q7501	A	C	2A
Q7502	A	C	2A
Q7503	A	C	1A
Q7504	A	C	1A
Q7505	A	C	1A
Q7506	A	C	1A
Q7601	A	C	2B
Q7602	A	C	2B
Q7603	A	C	1B
Q7604	A	C	1B
Q7608	A	C	2B
Q7609	A	C	2B
Q7610	A	C	2B
RESISTOR			
R7501	A	C	2A
R7502	A	C	2A
R7503	A	C	2A
R7504	A	C	1A
R7505	A	C	1A
R7506	A	C	2A
R7507	A	C	2A
R7508	A	C	2A
R7509	A	C	1A
R7510	A	C	1A
R7511	A	C	1A
R7601	A	C	1A
R7602	A	C	1A
R7603	A	C	3B
R7604	A	C	2B
R7605	A	C	3B
R7606	A	C	3B
R7607	A	C	2B
R7608	A	C	2B
R7609	A	C	2B
R7610	A	C	2B
R7611	A	C	2B
R7612	A	C	2B
R7613	A	C	2B
R7614	A	C	1B
R7615	A	C	1B
R7616	A	C	2B
R7617	A	C	2B
R7618	A	C	2B
R7619	A	C	1B
R7630	A	C	2B
R7631	A	C	1B
R7632	A	C	2A
OTHER			
JP7501	A	C	3B
JP7502	A	C	3B
JP7503	A	C	3B
T7501	A	C	2A
ZP1	B	C	3B
ZP2	B	C	3B
ZP3	B	C	3B
ZP1-1	B	C	3B
ZP1-3	B	C	3B
ZP1-5	B	C	3B
ZP1-6	B	C	3B
ZP1-7	B	C	3B
ZP1-9	B	C	3B
ZP2-1	B	C	1B
ZP1-11	B	C	1A
ZP1-12	B	C	3B
ZP1-13	B	C	2A
ZP1-14	B	C	3B
ZP1-15	B	C	3B
ZP1-16	B	C	2A
ZP1-17	B	C	2B
ZP1-20	B	C	3B
ZP1-22	B	C	3B
ZP1-24	B	C	3B
ZP1-26	B	C	3B
ZP1-28	B	C	3B
ZP1-31	B	C	3A
ZP1-32	B	C	3A
ZP1-33	B	C	3B
ZP1-34	B	C	3B
ZP1-35	B	C	1A
ZP1-36	B	C	1A
ZP1-37	B	C	2A
ZP2-10	B	C	1B
ZP2-15	B	C	1B
ZP2-16	B	C	1C
ZP2-17	B	C	1B
ZP2-24	B	C	1C

4.23 JACK CIRCUIT BOARD

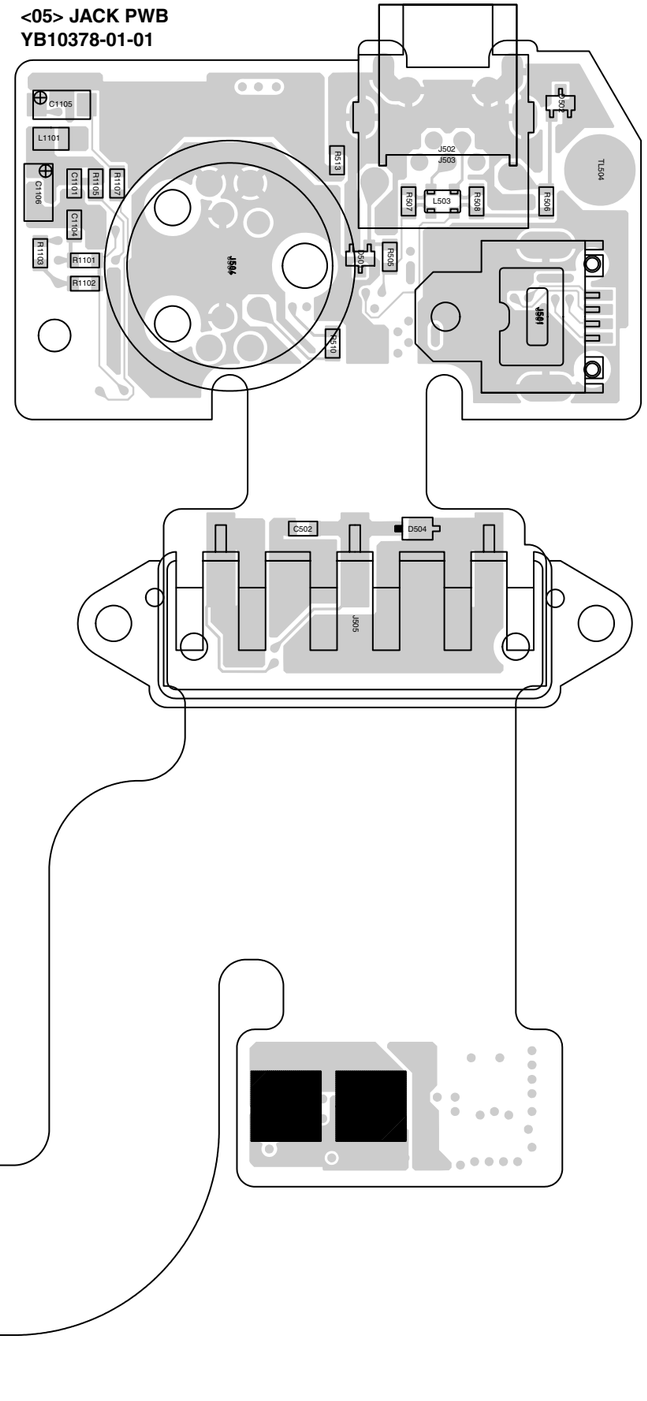
FOIL SIDE (B)

<05> JACK PWB
YB10378-01-01

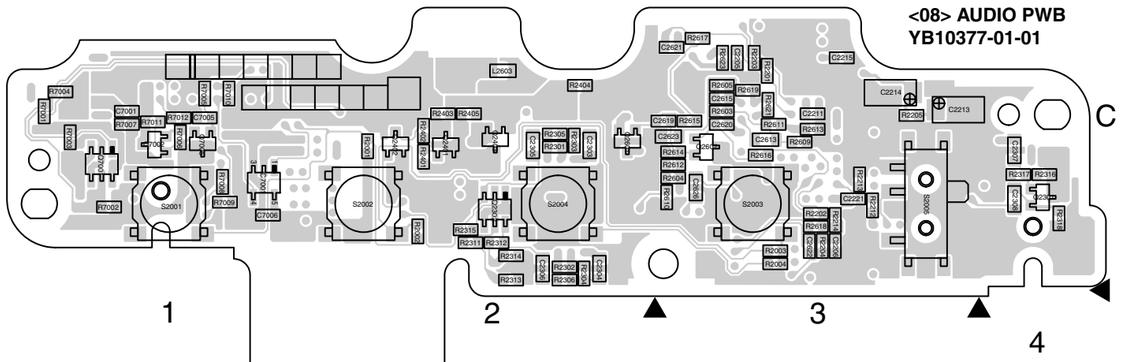


COMPONENT SIDE (A)

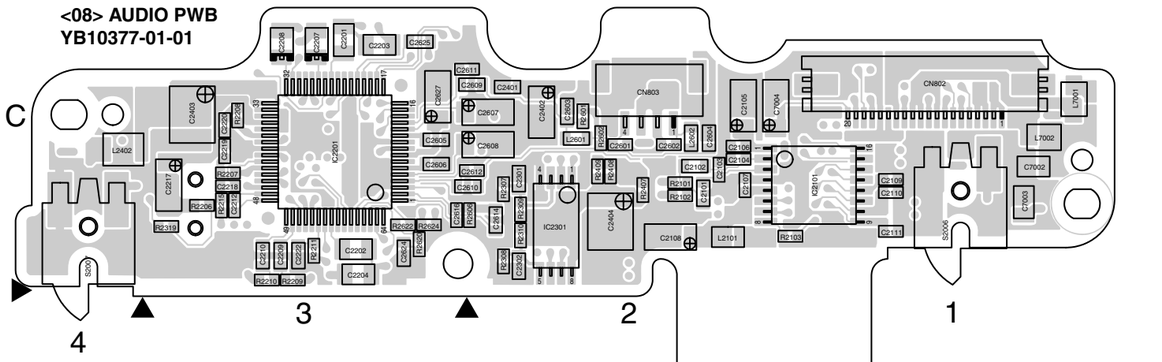
<05> JACK PWB
YB10378-01-01



FOIL SIDE (B)



COMPONENT SIDE (A)



COMPONENT LOCATION GUIDE <AUDIO/YB10377-01-01>

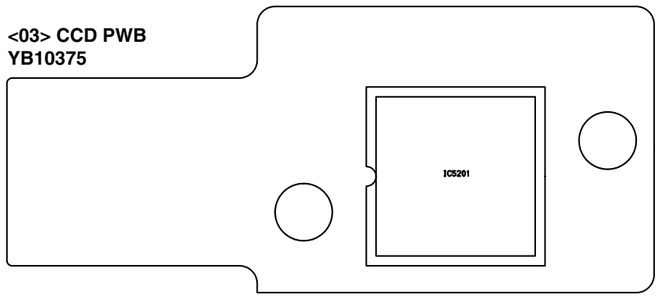
REF.NO.	LOCATION		
CAPACITOR			
C2101	A	C	2C
C2102	A	C	2C
C2103	A	C	2C
C2104	A	C	2C
C2105	A	C	2C
C2106	A	C	2C
C2107	A	C	2C
C2108	A	C	2C
C2109	A	C	1C
C2110	A	C	1C
C2111	A	C	1C
C2201	A	C	3C
C2202	A	C	3C
C2203	A	C	3C
C2204	A	C	3C
C2205	B	C	3C
C2206	B	C	3C
C2207	A	C	3C
C2208	A	C	3C
C2209	A	C	3C
C2210	A	C	3C
C2211	B	C	3C
C2212	A	C	3C
C2213	B	C	3C
C2214	B	C	3C
C2215	B	C	3C
C2217	A	C	3C
C2218	A	C	3C
C2219	A	C	3C
C2220	A	C	3C
C2221	B	C	3C
C2222	A	C	3C
C2301	A	C	2C
C2302	A	C	2C
C2303	B	C	2C
C2304	B	C	2C
C2305	B	C	2C
C2306	B	C	2C
C2307	B	C	4C
C2308	B	C	4C
C2401	A	C	2C
C2402	A	C	2C
C2403	A	C	3C
C2404	A	C	2C
C2601	A	C	2C
C2602	A	C	2C
C2603	A	C	2C
C2604	A	C	2C
C2605	A	C	3C
C2606	A	C	3C
C2607	A	C	2C
C2608	A	C	2C
C2609	A	C	2C
C2610	A	C	2C
C2611	A	C	2C
C2612	A	C	2C
C2613	B	C	3C
C2614	A	C	2C
C2615	B	C	3C
C2616	A	C	3C
C2619	B	C	3C
C2620	B	C	3C
C2621	B	C	3C
C2622	B	C	3C
C2623	B	C	3C
C2624	A	C	3C
C2625	A	C	3C
C2626	B	C	3C
C2627	A	C	3C
C7001	B	C	1C
C7002	A	C	1C
C7003	A	C	1C
C7004	A	C	2C
C7005	B	C	1C
C7006	B	C	1C
CONNECTOR			
CN801	B	C	2A
CN802	A	C	1C
CN803	A	C	2C
IC			
IC2101	A	C	1C
IC2201	A	C	3C
IC2301	A	C	2C
IC7001	B	C	1C
COIL			
L2101	A	C	2C
L2402	A	C	4C
L2601	A	C	2C
L2602	A	C	2C
L2603	B	C	2C
L7001	A	C	1C
L7002	A	C	1C
TRANSISTOR			
Q2301	B	C	4C
Q2302	B	C	2C
Q2401	B	C	2C
Q2402	B	C	2C
Q2403	B	C	2C
Q2601	B	C	2C
Q2602	B	C	3C
Q7001	B	C	1C
Q7002	B	C	1C
Q7005	B	C	1C
RESISTOR			
R2001	B	C	2C
R2002	B	C	2C
R2003	B	C	3C
R2004	B	C	3C
R2101	A	C	2C
R2102	A	C	2C
R2103	A	C	2C
R2201	B	C	3C
R2202	B	C	3C
R2203	B	C	3C
R2204	B	C	3C
R2205	B	C	3C
R2206	A	C	3C
R2207	A	C	3C
R2208	A	C	3C
R2209	A	C	3C
R2210	A	C	3C
R2211	A	C	3C
R2212	B	C	3C
R2213	B	C	3C
R2214	B	C	3C
R2215	A	C	3C
R2301	B	C	2C
R2302	B	C	2C
R2303	B	C	2C
R2304	B	C	2C
R2305	B	C	2C
R2306	B	C	2C
R2307	A	C	2C
R2308	A	C	2C
R2309	A	C	2C
R2310	A	C	2C
R2311	B	C	2C
R2312	B	C	2C
R2313	B	C	2C
R2314	B	C	2C
R2315	B	C	2C
R2316	B	C	4C
R2317	B	C	4C
R2318	B	C	4C
R2319	A	C	3C
R2401	B	C	2C
R2402	B	C	2C
R2403	B	C	2C
R2404	B	C	2C
R2405	B	C	2C
R2407	A	C	2C
R2408	A	C	2C
R2409	A	C	2C
R2601	A	C	2C
R2602	A	C	2C
R2603	B	C	3C
R2604	B	C	3C
R2605	B	C	3C
R2606	A	C	2C
R2609	B	C	3C
R2610	B	C	3C
R2611	B	C	3C
R2612	B	C	3C
R2613	B	C	3C
R2614	B	C	3C
R2615	B	C	3C
R2616	B	C	3C
R2617	B	C	3C
R2618	B	C	3C
R2619	B	C	3C
R2620	A	C	3C
R2621	B	C	3C
R2622	A	C	3C
R2623	B	C	3C
R2624	A	C	3C
R7001	B	C	1C
R7002	B	C	1C
R7003	B	C	1C
R7004	B	C	1C
R7005	B	C	1C
R7006	B	C	1C
R7007	B	C	1C
R7008	B	C	1C
R7009	B	C	1C
R7010	B	C	1C
R7011	B	C	1C
R7012	B	C	1C
OTHER			
S2001	B	C	1C
S2002	B	C	2C
S2003	B	C	3C
S2004	B	C	2C
S2005	B	C	3C
S2006	A	C	1C
S2007	A	C	4C

4.25 CCD, VF, WB, MONI SW AND MENU CIRCUIT BOARDS

- CCD -

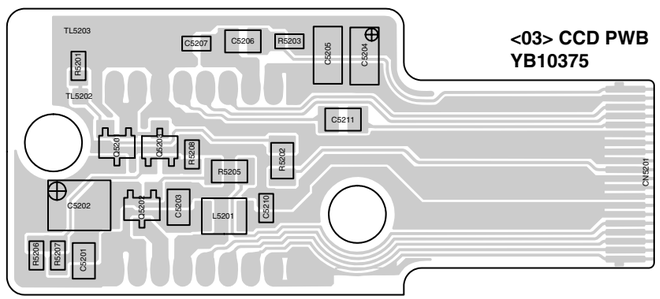
FOIL SIDE (B)

<03> CCD PWB
YB10375



COMPONENT SIDE (A)

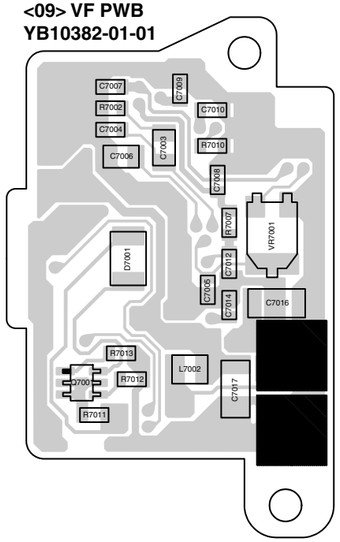
<03> CCD PWB
YB10375



- VF -

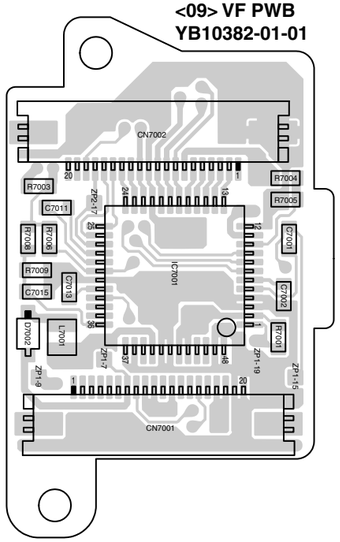
FOIL SIDE (B)

<09> VF PWB
YB10382-01-01



COMPONENT SIDE (A)

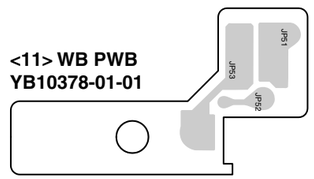
<09> VF PWB
YB10382-01-01



- WB -

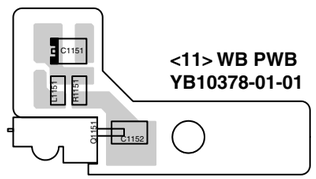
FOIL SIDE (B)

<11> WB PWB
YB10378-01-01



COMPONENT SIDE (A)

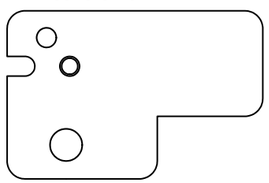
<11> WB PWB
YB10378-01-01



- MONI SW -

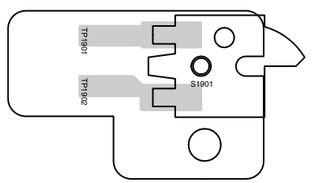
FOIL SIDE (B)

<12> MONI SW PWB
YB10378-01-01



COMPONENT SIDE (A)

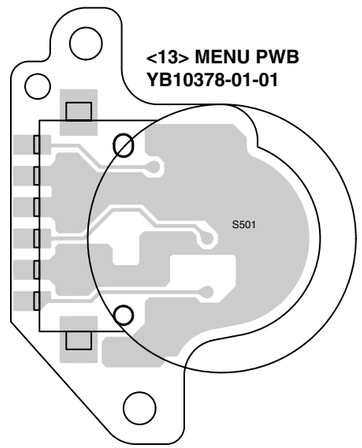
<12> MONI SW PWB
YB10378-01-01



- MENU -

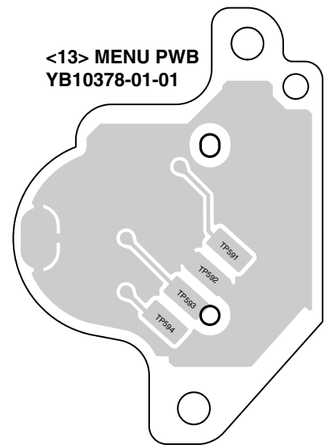
FOIL SIDE (B)

<13> MENU PWB
YB10378-01-01



COMPONENT SIDE (A)

<13> MENU PWB
YB10378-01-01

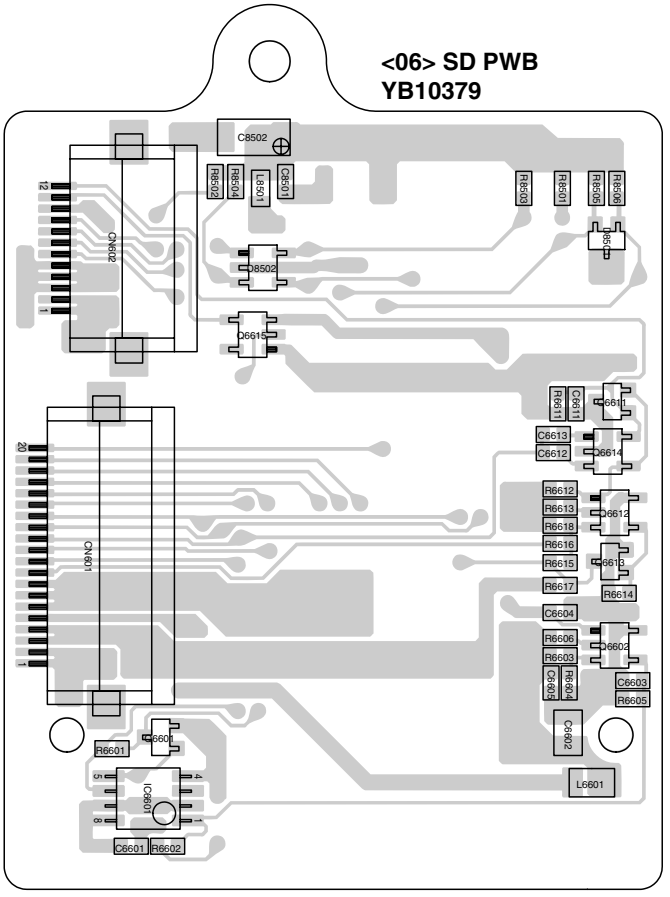


4.26 SD AND STROBE CIRCUIT BOARDS [GR-DVX-507A/EG/EK, GR-DVX509ED]

- SD -

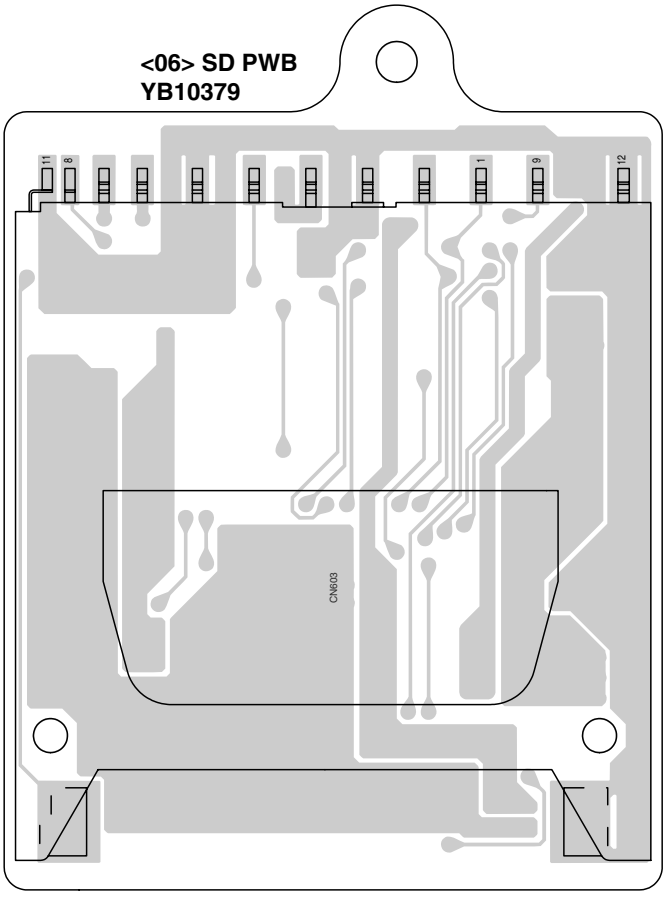
FOIL SIDE (B)

<06> SD PWB
YB10379



COMPONENT SIDE (A)

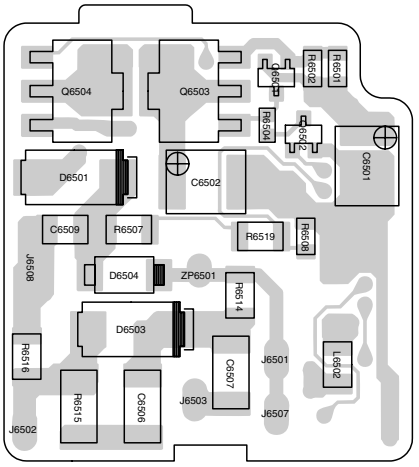
<06> SD PWB
YB10379



- STROBE -

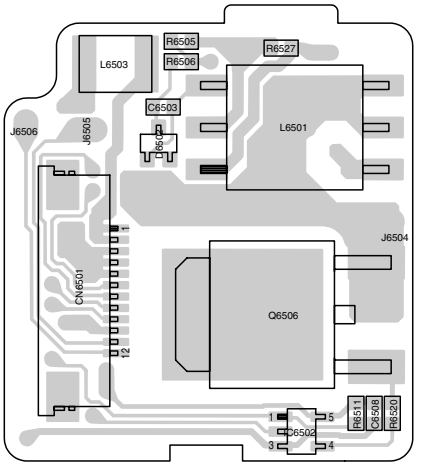
FOIL SIDE (B)

<07> STROBE PWB
YB10380



COMPONENT SIDE (A)

<07> STROBE PWB
YB10380



4.27 VOLTAGE CHARTS

<SYSCON>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002		
1	0	0
2	3.0	3.1
3	0	0
4	0	0
5	3.1	3.1
6	0.5	0.5
7	0.4	0.4
8	3.0	3.0
IC1003		
1	3.0	3.1
2	0.7	0.7
3	3.1	3.1
4	0	0
5	0.7	0.6
6	3.0	3.1
7	3.1	3.1
8	3.1	3.1
IC1004		
1	1.4	1.4
2	0	0
3	1.3	1.3
4	0	0
5	3.1	3.1
IC1005		
1	0	0
2	3.0	3.0
3	0	0
4	3.1	3.0
5	3.1	3.0
IC1006		
1	2.8	2.8
2	0	0
3	0	0
4	3.1	3.1
5	3.1	3.1
6	3.1	3.1
7	1.4	1.4
8	1.5	1.5
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	3.0	3.0
20	2.9	2.9
IC1007		
1	3.0	3.0
2	3.0	3.0
3	3.0	3.1
4	3.0	3.1
5	3.0	3.0
6	0	3.1
7	0	0
8	3.0	3.1
9	3.0	3.1
10	3.1	3.1

MODE PIN NO.	REC	PLAY
11	0	0
12	0	0
13	3.1	3.1
14	3.1	3.1
IC1008		
1	3.1	3.1
2	3.1	3.0
3	0	0
4	0	0
Q1001		
E	0	0
C	0	0
B	0	0
Q1002		
E	0	0
C	3.1	3.1
B	0.6	0.6
Q1003		
E	0	0
C	0.4	0.6
B	0	0
Q1005		
D	3.1	3.1
S	0	0
G	3.1	3.1
Q1006		
1(E)	0	0
2(B)	0	0
3(E)	3.1	3.1
4(C)	3.1	0
5(C)	0	3.1
Q1007		
1(E)	0	0
2(B)	0	0
3(E)	3.1	3.1
4(C)	0	0
5(C)	3.1	3.1

<PC IF>

MODE PIN NO.	REC	PLAY
IC1301	-	-
IC1302		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	3.1	3.1
10	0	0
11	3.1	3.1
12	0	0
13	0	0
14	0	0
15	3.1	3.1
16	3.0	3.1
IC1303	-	-
Q1301	-	-

<D.CPU>

MODE PIN NO.	REC	PLAY
IC1401	-	-
IC1402		
1	3.0	3.1
2	3.1	3.1
3	3.1	3.1
4	0	0
5	3.1	3.1
6	3.1	3.0
7	3.1	3.1
8	3.1	3.1
Q1401		
E	3.1	3.1
C	3.1	3.1
B	3.1	3.1
Q1402		
1(E)	0	0
2(B)	3.1	3.1
3(E)	3.1	3.1
4(C)	2.8	2.8
5(C)	0	0
Q1403		
1(E)	0	0
2(B)	0	0
3(E)	3.1	3.1
4(C)	0	-0.5
5(C)	3.1	3.1

<AUDIO MUTE>

MODE PIN NO.	REC	PLAY
Q2701		
1(E)	-	-
2(B)	-	-
3(C)	-	-
4(E)	0	0
5(B)	0	0
6(C)	0	0

<DVMAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3004		
1	1.5	1.5
2	1.5	1.5
3	0	0
4	1.1	0
5	3.1	3.1
IC3007		
1	0	0.4
2	0	0.5
3	0	0
4	2.0	2.0
5	1.1	1.3
6	1.1	1.5
7	3.1	3.1
8	1.1	1.6

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501		
1	0	0
2	0.5	0.5
3	0	0
4	0	1.5
5	2.5	2.5
6	2.4	0
7	1.5	0
8	0	0
9	1.1	3.1
10	1.9	1.8
11	3.0	3.1
12	0	0
13	4.8	4.8
14	0	0
15	0	0
16	0	0
17	0	0
18	3.6	1.7
19	3.3	1.7
20	3.3	1.7
21	3.6	1.7
22	0	0
23	3.6	1.7
24	3.3	1.7
25	3.3	1.7
26	3.6	1.7
27	0	0
28	1.6	1.5
29	3.2	1.8
30	3.2	1.8
31	1.6	1.5
32	0	0
33	0	0
34	0	0
35	1.8	1.8
36	0.4	0.4
37	3.1	3.1
38	0	3.1
39	3.1	3.1
40	1.5	1.5
41	0	3.1
42	3.1	0
43	4.8	4.8
44	3.1	0
45	0	0
46	0	2.0
47	0	1.9
48	4.3	3.1
49	4.3	2.8
50	0.6	1.6
51	1.3	1.3
52	0.9	1.7
53	0	0
54	3.2	2.6
55	2.5	1.9
56	1.1	1.1
57	2.5	1.9
58	2.5	1.3
59	0	0
60	1.2	1.2
61	3.0	1.9
62	2.5	1.9

MODE PIN NO.	REC	PLAY
63	2.5	1.4
64	2.5	1.9
IC3502		
1	0.6	0
2	0.6	0
3	0	0
4	0	3.1
5	3.1	3.1

<V OUT>

MODE PIN NO.	REC	PLAY
IC3701		
1	0	0
2	2.3	2.3
3	0	0
4	0	0
5	0	0
6	0	0
7	1.7	1.7
8	0	0
9	2.0	2.0
10	0	0
11	2.2	2.2
12	2.5	2.2
13	4.8	2.5
14	1.8	4.8
15	1.8	1.8
16	4.8	4.8
Q3701		
1(E)	1.1	1.0
2(E)	1.1	1.0
3(B)	0.6	0.6
4(C)	0	0
5(B)	0.5	0.5
6(C)	0	0
Q3702		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	4.8	4.8
5(B)	4.3	4.3
6(C)	4.3	4.4

<CAMERA DSP>

MODE PIN NO.	REC	PLAY
IC4201		
1	0	0
2	1.2	0
3	1.2	0
4	1.1	0
5	0.7	0
6	0.6	0
7	2.4	3.0
8	0.5	0
9	0.5	0
10	0	0
11	0	0
12	0	0
13	3.0	3.0
14	0	0
15	0	0

MODE PIN NO.	REC	PLAY
16	1.3	0
17	3.0	3.0
18	3.0	3.0
19	2.5	0
20	3.0	0
21	2.4	0
22	2.4	0
23	0	0
24	3.0	3.0
25	0	0
26	0	0
27	3.0	3.0
28	1.9	0
29	1.9	0
30	2.0	1.2
31	1.9	0
32	1.2	0
33	3.0	3.0
34	0	0
35	0	0
36	0	0
37	1.4	0
38	1.9	0
39	0.9	0
40	3.0	3.0
41	0	0
42	0	0
43	3.0	3.0
44	3.1	3.0
45	0	0
46	3.1	3.1
47	0	1.8
48	3.1	3.1
IC4202		
1	4.8	4.8
2	0	0
3	1.2	1.3
4	3.0	3.0
5	4.8	4.8
IC4301	-	-
IC4302		
1	0	0
2	1.6	1.2
3	1.6	1.2
4	1.5	1.5
5	0	0.8
6	0.8	0.7
7	0.9	0.8
8	1.4	1.4
9	0	0
10	0	0
11	0	0
12	0	0
13	2.7	2.7
14	3.1	3.1
15	0.9	0.9
16	1.2	1.2
17	3.1	3.1
18	0.9	0.9
19	0	1.8
20	0	0
21	1.4	1.2
22	1.7	1.6

MODE PIN NO.	REC	PLAY
23	3.1	3.1
24	1.4	1.3
25	1.6	1.5
26	0	0
27	1.4	1.6
28	1.3	1.1
29	3.1	3.1
30	1.1	1.0
31	1.2	1.1
32	3.0	3.0
33	0	0
34	2.7	2.7
35	0	0
36	0	0
37	0	0
38	1.4	1.4
39	0.7	0.7
40	1.1	0.9
41	0.9	0.7
42	1.5	2.0
43	1.5	1.2
44	1.7	1.3
Q4301		
1(E)	0.9	1.0
2(E)	1.0	1.0
3(B)	0.4	0.4
4(C)	0	0
5(B)	0.4	0.4
6(C)	0	0
Q4302		
1(E)	0	1.2
2(E)	1.0	1.0
3(B)	0	0.4
4(C)	0	0
5(B)	0.6	0.6
6(C)	0	0

<OP DRV>

MODE PIN NO.	REC	PLAY
IC4802		
1	3.0	3.0
2	2.6	2.7
3	2.6	2.7
4	0	0
5	2.6	2.6
6	2.6	2.6
7	2.6	2.6
8	4.8	4.8
IC4803		
1	1.0	1.0
2	0	0
3	0	0
4	0	0
5	2.7	2.7
6	2.6	2.7
7	0	3.0
8	4.8	4.8
IC4804		
1	1.5	0
2	2.0	2.7
3	2.0	0

MODE PIN NO.	REC	PLAY
4	0	0
5	1.6	3.0
6	1.6	3.0
7	1.8	0
8	4.8	4.8
IC4851		
1	0	0
2	0.6	0.6
3	0.4	0.4
4	0	0
5	0	0.4
6	0	0
7	0	0
8	3.1	3.1
9	4.8	4.8
10	0.6	0.6
11	0	0
12	0.6	0.6
13	4.8	4.8
14	0.6	0.7
15	0	0
16	0.5	0.6
17	0	0
18	0	0
19	0	0
20	3.1	0
21	1.5	0
22	1.5	0
23	4.8	4.8
24	0	0.6
25	0	0.7
26	0	4.8
27	4.8	4.8
28	0.6	0.6
29	0	0
30	0.6	0.6
31	4.8	3.1
32	0.6	0
33	0	0
34	0.6	1.8
35	4.8	3.1
36	0	1.5
37	0	1.5
38	0	3.1
Q4801		
E	0.4	0.4
C	2.3	2.3
B	1.0	1.0
Q4802	-	-
Q4803	-	-
Q4804	-	-
Q4805	-	-
Q4806		
E	1.1	0
C	4.8	4.8
B	1.7	0
Q4851		
E	0	0
C	3.1	3.6
B	0	0

<TG>

MODE PIN NO.	REC	PLAY
IC5501		
1	0.6	1.0
2	2.5	0
3	3.1	0
4	3.1	3.1
5	0	0
6	3.1	3.1
7	0	0
8	0.6	0
9	0	0
10	3.1	3.1
11	1.5	0
12	3.1	3.1
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	0	1.8
26	3.1	3.1
27	0	0
28	1.2	1.3
29	0	0
30	1.3	1.4
31	0	0
32	0	3.0
33	3.1	3.1
34	1.5	0
35	1.3	0
36	3.1	3.1
37	3.0	0
38	3.1	3.1
39	0	0
40	0	0
41	-6.2	0
42	0	12.0
43	12.0	12.0
44	-6.2	12.0
45	-6.2	-6.7
46	-6.6	-6.7
47	0	0
48	3.0	0

<REG>

MODE PIN NO.	REC	PLAY
IC6001		
1	8.0	8.0
2	10.5	10.5
3	0	0
4	0	0
IC6002		
1	0	0
2	11.1	11.1
3	3.3	3.3
4	0	0

MODE PIN NO.	REC	PLAY
IC6101		
1	3.1	3.1
2	3.1	3.1
3	3.0	3.0
4	0	0
5	3.1	3.1
6	0	0
7	1.3	1.2
8	11.1	11.1
9	1.0	1.0
10	1.2	1.2
11	2.2	2.2
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	2.2
20	0.9	0.9
21	0	0
22	2.2	2.2
23	1.0	1.0
24	0.7	0.7
25	1.0	1.0
26	0.6	0.6
27	1.0	1.0
28	0.8	0.8
29	1.0	1.0
30	0.6	0.7
31	0	0
32	0	0
33	0.6	0.6
34	0	0
35	0	0
36	0.5	0.5
37	0.8	0.8
38	0	0
39	1.0	1.0
40	0	0
41	2.4	2.4
42	0	1.1
43	0	0
44	2.2	2.2
45	2.2	2.2
46	0	2.2
47	0	8.0
48	1.0	1.0
49	1.1	1.1
50	2.3	2.1
51	11.1	11.1
52	0	0
53	10.0	10.1
54	9.2	9.2
55	7.7	7.7
56	6.1	6.1
57	9.1	9.1
58	7.8	7.8
59	0	0
60	11.1	11.1
61	0	0
62	10.4	10.4

MODE PIN NO.	REC	PLAY
63	1.2	1.2
64	1.0	1.0
Q6001		
E	0	0
C	0	0
B	3.1	3.1
Q6002		
1(S1)	0	0
2(G1)	0	0
3(D2)	0	0
4(S2)	4.0	4.0
5(G2)	3.1	3.1
6(D1)	10.4	10.4
Q6004		
E	11.1	11.1
C	3.1	3.1
B	10.5	10.5
Q6201		
D	11.1	11.1
S	7.8	7.8
G	3.1	3.1
Q6202		
E	3.1	3.1
C	2.5	2.5
B	2.5	2.4
Q6203		
1(G)	9.1	9.1
2(S)	11.1	11.1
3(A)	0	0
4(C)	1.8	1.8
5(D)	1.8	1.8
Q6204		
D	11.1	11.1
S	6.0	6.1
G	4.9	4.9
Q6205		
E	4.8	4.8
C	0	0
B	4.8	4.8
Q6206		
E	0	0
C	4.8	4.8
B	0	0
Q6208	-	-
Q6210	-	-
Q6211		
D	11.1	11.1
S	7.7	7.7
G	0	0
Q6212	-	-
Q6213	-	-
Q6214	-	-
Q6215	-	-
Q6216	-	-
Q6701		
D	11.1	11.1
S	7.8	11.1
G	3.1	0

<DSC>

MODE PIN NO.	REC	PLAY
IC8001	-	-
IC8002	-	-
IC8003	-	-
IC8004	-	-
IC8007	-	-
Q8001	-	-

<IR/TALLY>

MODE PIN NO.	REC	PLAY
IC1801		
1	4.6	4.6
2	0	0
3	4.8	4.8

<MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	0.9	0.9
3	0.9	0.9
4	0	0.9
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	4.8	4.8
13	0.4	0.5
14	0.4	0.4
15	0.4	0.4
16	0	0
17	0.8	0.9
18	11.1	0
19	1.5	1.5
20	1.6	1.6
21	1.6	1.5
22	1.6	1.5
23	1.6	1.6
24	1.6	0
25	1.6	1.6
26	1.6	0
27	-	-
28	1.5	1.5
29	3.1	3.1
30	0	0
31	0.7	0.7
32	0.7	0.7
33	1.6	1.6
34	3.1	3.1
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	1.6	1.6
41	0.7	0.7
42	0.7	0.7

MODE PIN NO.	REC	PLAY
43	1.0	1.0
44	0.7	0.7
45	0	0
46	0	0
47	2.8	2.8
48	1.2	1.2
49	1.6	1.6
50	1.6	1.5
51	-	-
52	1.5	1.5
53	1.6	1.5
54	0.5	0.5
55	0	0
56	0.9	0.9
57	0.9	0.9
58	0.9	0.9
59	0.9	0.9
60	1.2	1.2
61	0.4	0.4
62	0	0
63	11.8	11.1
64	1.8	1.8
IC1602		
1	-	-
2	3.1	3.1
3	-	-
4	0	0
5	-	-
6	0	0
7	0	-
8	3.1	3.1
Q1601		
1(E)	0	0
2(B)	0	0
3(E)	4.8	4.8
4(C)	0	0
5(C)	4.8	4.8

<JACK>

MODE PIN NO.	REC	PLAY
IC1101		
1	2.4	2.4
2	2.4	2.4
3	2.4	2.4
4	0	0
5	2.4	2.4
6	2.4	2.4
7	1.6	1.6
8	4.8	4.8

<SD>

MODE PIN NO.	REC	PLAY
IC6601	-	-
Q6601	-	-
Q6602	-	-
Q6611	-	-
Q6612	-	-
Q6613	-	-
Q6614	-	-
Q6615	-	-

<STROBE>

MODE PIN NO.	REC	PLAY
IC6502	-	-
Q6501	-	-
Q6502	-	-
Q6503	-	-
Q6504	-	-
Q6506	-	-

<MAIN AUDIO>

MODE PIN NO.	REC	PLAY
IC2101		
1	1.4	1.4
2	1.4	0
3	1.4	0
4	0	0
5	3.1	3.1
6	3.1	3.1
7	0	0
8	1.6	0
9	1.4	1.4
10	1.4	1.6
11	1.5	1.4
12	1.5	1.5
13	3.1	0
14	0	3.1
15	1.6	1.4
16	1.0	1.4
IC2201		
1	1.5	0.5
2	1.5	0.5
3	1.5	0.5
4	1.5	1.6
5	1.5	1.1
6	0	1.6
7	0	0
8	2.2	2.4
9	2.2	2.4
10	0	0
11	1.5	1.6
12	1.5	1.2
13	1.5	1.6
14	1.5	0.5
15	1.5	0.5
16	1.5	0.5
17	1.5	1.6
18	1.5	1.6
19	1.5	1.1
20	1.5	0.9
21	1.5	1.6

MODE PIN NO.	REC	PLAY
22	2.8	3.0
23	1.5	1.7
24	1.5	1.7
25	2.6	2.2
26	0.9	0.4
27	2.2	2.2
28	2.7	1.7
29	2.4	2.4
30	2.2	2.2
31	2.2	2.4
32	2.2	2.2
33	4.8	4.8
34	4.7	4.8
35	0.6	0.6
36	2.4	2.4
37	4.7	4.7
38	2.2	2.2
39	0	1.8
40	0	0
41	3.1	3.1
42	0	2.4
43	2.2	2.2
44	3.0	3.0
45	1.5	0
46	0	0
47	0	2.4
48	0	0
49	1.5	0
50	1.5	1.6
51	1.5	1.6
52	1.7	0
53	1.7	0
54	3.1	3.1
55	0	0
56	2.6	2.2
57	1.5	1.6
58	1.5	1.6
59	2.8	3.0
60	1.5	1.6
61	1.5	1.1
62	1.5	0.9
63	1.5	1.7
64	1.5	1.7
Q2401		
E	4.8	4.8
C	4.8	4.8
B	4.1	4.1
Q2402		
E	0	0
C	0	0
B	3.1	3.1
Q2403		
E	2.8	3.0
C	4.8	4.8
B	3.5	3.7
Q2601		
E	0.9	1.0
C	2.8	3.0
B	1.5	1.6
Q2602		
E	0.9	1.0
C	2.8	3.0
B	1.5	1.6

<VF MAIN>

MODE PIN NO.	REC	PLAY
IC7001		
1	0	0
2	4.8	4.8
3	0	0
4	3.1	3.1
5	3.1	3.1
Q7002		
E	1.1	1.1
C	4.8	4.8
B	1.7	1.7
Q7003		
E	1.7	1.7
C	0	0
B	1.1	1.1

<W/B>

MODE PIN NO.	REC	PLAY
Q1151		
E	0	0
C	4.3	4.3
B	-	-

<CCD>

MODE PIN NO.	EE
IC5201	
1	-6.2
2	-6.2
3	0
4	0
5	1.5
6	7.5
7	12
8	8.6
9	0
10	10.0
11	1.5
12	1.2
13	7.4
14	-6.6
Q5201	
E	7.9
C	12.0
B	8.6
Q5202	-
Q5203	-

<MONITOR>

MODE PIN NO.	EE
IC7601	
1	2.5
2	7.3
3	2.4
4	2.4
5	2.4
6	2.4
7	2.4
8	2.4
9	2.4
10	12.0
11	0
12	6.0
13	6.1
14	6.1
15	6.1
16	6.1
17	6.1
18	6.1
19	6.1
20	1.5
21	1.6
22	1.5
23	1.3
24	2.8
25	0
26	0
27	0.9
28	1.3
29	3.1
30	0
31	0
32	0.4
33	1.4
34	1.6

MODE PIN NO.	EE
35	3.1
36	0
37	0
38	0
39	3.0
40	0.8
41	1.6
42	3.1
43	3.1
44	0
45	3.0
46	2.9
47	2.5
48	2.5
IC7602	
1	11.6
2	1.8
3	2.1
4	0
5	4.8
6	4.8
7	7.3
8	12.0
IC7603	
1	3.1
2	0.7
3	3.1
4	0
5	0.6
6	3.1
7	3.1
8	3.1
IC7604	
1	0
2	3.1
3	0
4	0
5	3.1
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	3.1
Q7501	
E	0
C	4.6
B	-0.5
Q7502	
E	0
C	4.6
B	-0.5
Q7503	
E	4.7
C	4.6
B	0
Q7504	
E	0
C	0
B	0.7

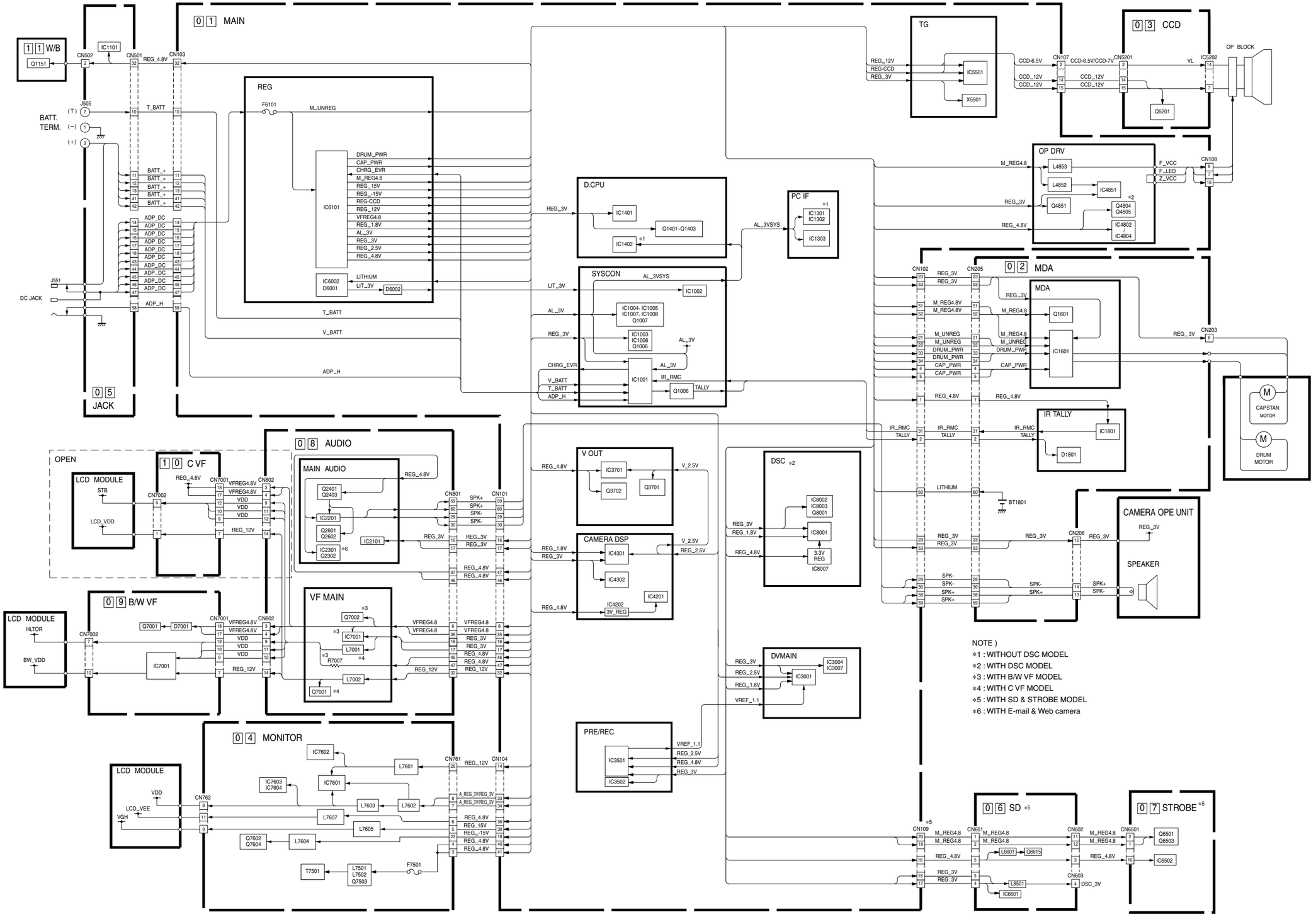
MODE PIN NO.	EE
Q7601	
E	0
C	0
B	-10.2
Q7602	
E	-9.6
C	-15.4
B	-10.2
Q7603	
E	-10.1
C	0
B	-9.7
Q7604	
E	-10.2
C	-15
B	-10.7
Q7608	
E	0
C	0
B	3.1
Q7609	
E	0
C	4.8
B	0
Q7610	
E	4.8
C	1.4
B	4.8

<B/W VF>

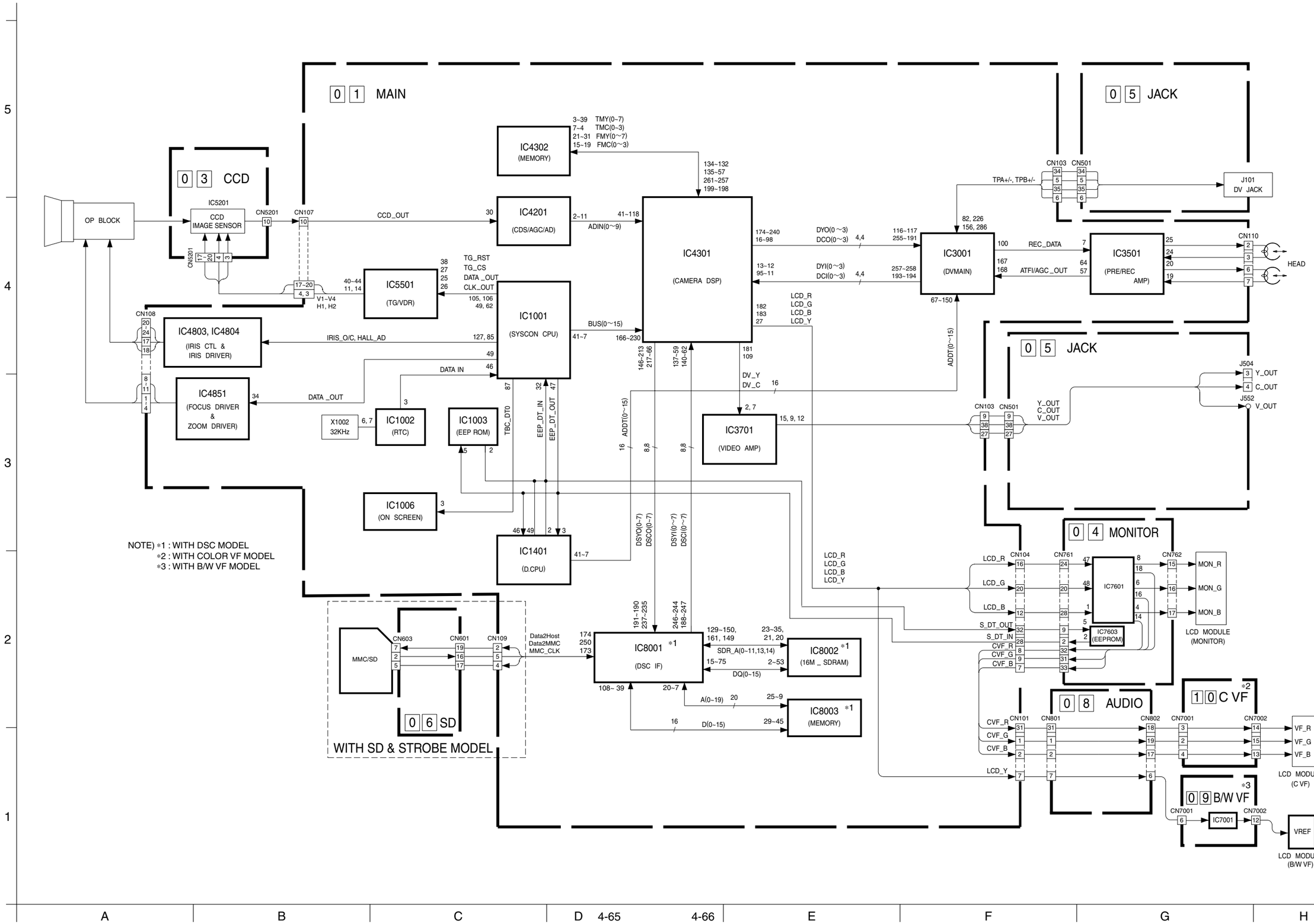
MODE PIN NO.	EE
IC7001	
1	3.1
2	4.8
3	0
4	0
5	0.9
6	2.4
7	1.7
8	1.7
9	1.3
10	4.8
11	0
12	0
13	4.8
14	7.6
15	4.8
16	4.8
17	-
18	5.8
19	1.9
20	9
21	0
22	2.6
23	4.8
24	2.3
25	3.2
26	3.2
27	3.4
28	0
29	11.1

MODE PIN NO.	EE
30	2.7
31	0
32	9.6
33	1.2
34	0
35	0
36	0.8
37	0
38	0
39	0
40	11.3
41	0
42	0
43	4.8
44	4.8
45	2.4
46	0.7
47	0
48	0
Q7001	
1(E)	0.5
2(B)	1.2
3(C)	1.2
4(E)	0.5
5(B)	1.2
6(C)	1.7

4.28 POWER SYSTEM BLOCK DIAGRAM



4.29 VIDEO SYSTEM BLOCK DIAGRAM



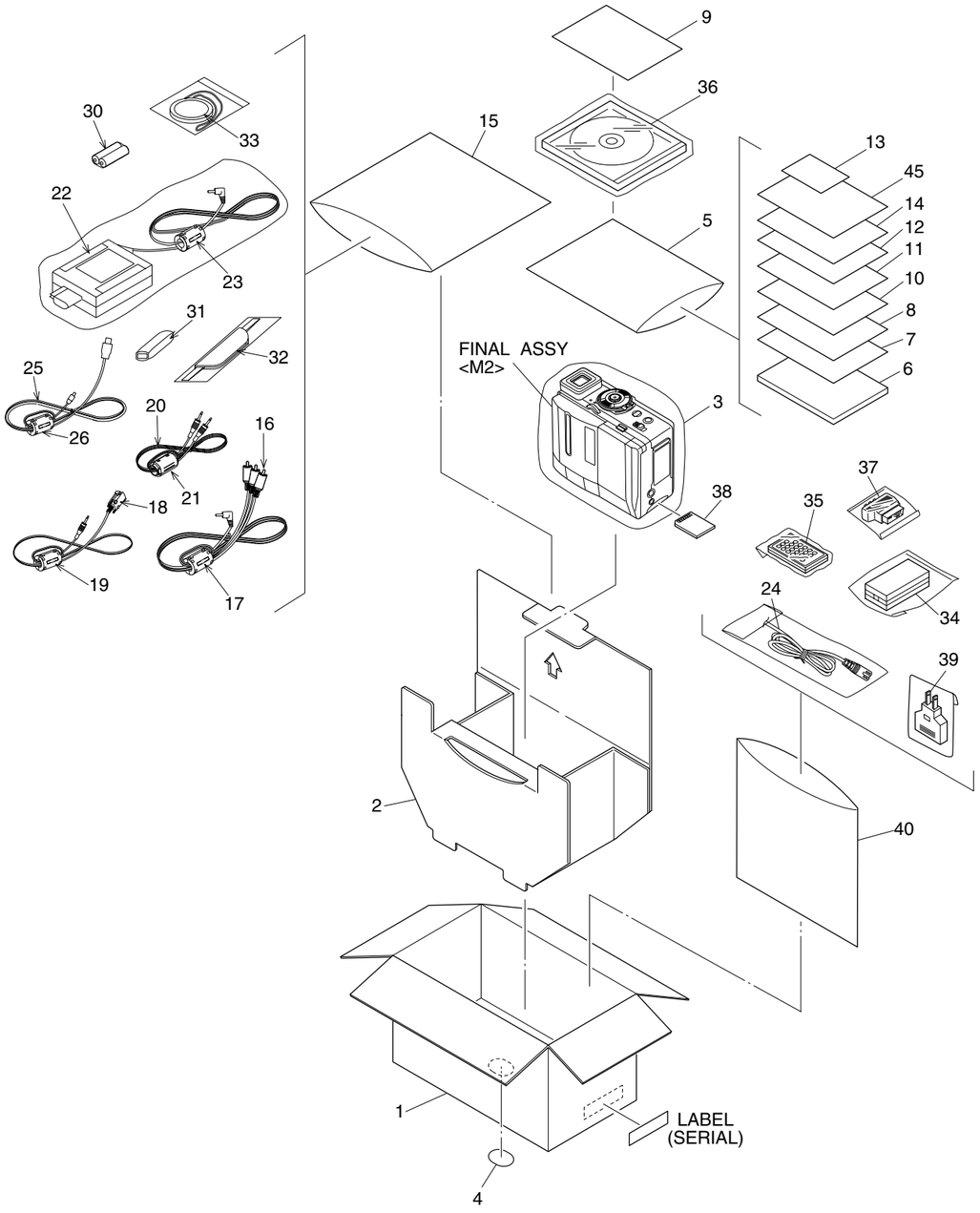
SECTION 5
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



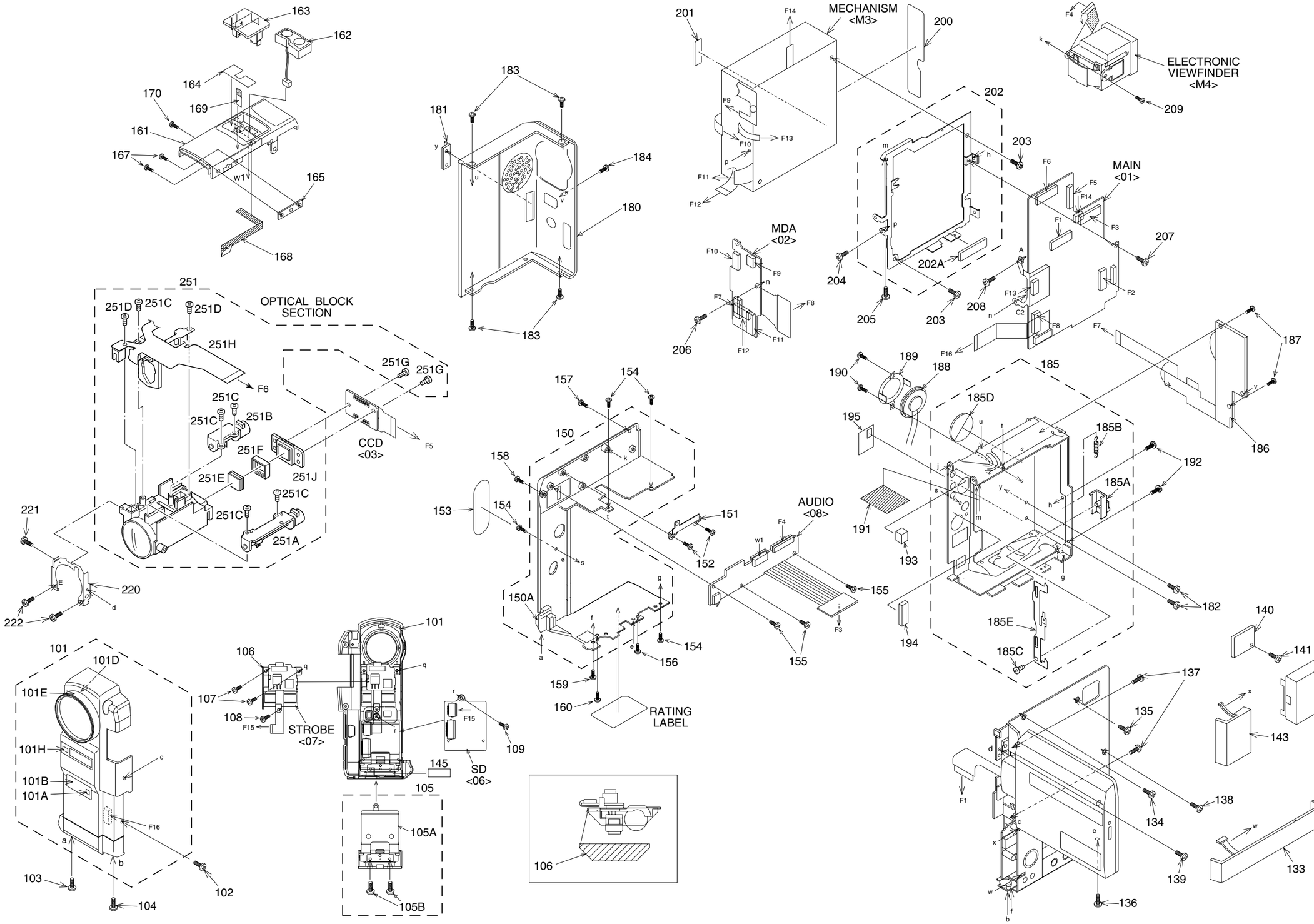
# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
**********		
		PACKING AND ACCESSORY ASSEMBLY <M1>
1	LY32700-001A	PACKING CASE,A,B,C,D,E,F
	LY32700-004A	PACKING CASE,G,H
2	LY20862-001B	CUSHION
3	LY30023-003A	POLY BAG
4	LY43496-001A	STICKER(EK),C,F
5	QPA02003506	POLY BAG,A,B,D,E,G,H
	YQM30061-3	POLY BAG,C,F
⚠ 6	LYT0957-001A	INST.BOOK(EN),C,F
⚠	LYT0957-002A	INST.BOOK(GE),A
⚠	LYT0957-002B	INST.BOOK(GE),B,D,E
⚠	LYT0957-003A	INST.BOOK(FR),A
⚠	LYT0957-003C	INST.BOOK(FR),D,E
⚠	LYT0957-004A	INST.BOOK(DU),A
⚠	LYT0957-004B	INST.BOOK(DU),D,E
⚠	LYT0957-005A	INST.BOOK(SP),A
⚠	LYT0957-005B	INST.BOOK(SP),D,E
⚠	LYT0957-006A	INST.BOOK(IT),A
⚠	LYT0957-006B	INST.BOOK(IT),D,E
⚠	LYT0957-007A	INST.BOOK(DA),B
⚠	LYT0957-008A	INST.BOOK(FI),B
⚠	LYT0957-009A	INST.BOOK(SW),B
⚠	LYT0957-010A	INST.BOOK(NO),B
⚠	LYT0997-001A	INST.BOOK(EN),G
⚠	LYT0997-002A	INST.BOOK(CH),G
⚠	LYT0997-003A	INST.BOOK(RU),G
⚠	LYT0997-004A	INST.BOOK(AR),G
⚠	LYT0997-005A	INST.BOOK(GE),G
⚠	LYT0997-006A	INST.BOOK(FR),G
⚠	LYT1005-001A	INST.BOOK(EN),H
⚠	LYT1005-002A	INST.BOOK(CH),H
7	LYT0873-001B	INST.BOOK(SOFT.EN),C
⚠	LYT0873-002A	INST.BOOK(SOFT.GE),A,B,D
⚠	LYT0873-003B	INST.BOOK(SOFT.FR),A,D
⚠	LYT0873-004A	INST.BOOK(SOFT.DU),A,D
⚠	LYT0873-005B	INST.BOOK(SOFT.SP),A,D
⚠	LYT0873-006A	INST.BOOK(SOFT.IT),A,D
	LYT0873-007A	INST.BOOK(SOFT.DA),B
	LYT0873-008A	INST.BOOK(SOFT.FI),B
	LYT0873-009A	INST.BOOK(SOFT.SW),B
	LYT0873-010A	INST.BOOK(SOFT.NO),B
	LYT0912-001A	INST.BOOK(SOFT.EN),F,G,H
	LYT0912-002A	INST.BOOK(SOFT.GE),E,G
	LYT0912-003A	INST.BOOK(SOFT.FR),E,G
	LYT0912-004A	INST.BOOK(SOFT.DU),E
	LYT0912-005A	INST.BOOK(SOFT.SP),E
	LYT0912-006A	INST.BOOK(SOFT.IT),E
	LYT0912-011A	INST.BOOK(SOFT.CH),G,H
	LYT0912-012A	INST.BOOK(SOFT.RU),G
⚠ 8	LYT0934-001A	SHEET(AGREMENT)
9	BT-54013-2	WARRANTY CARD,A,B,D,E
10	BT-54008-2	GUARANTY CARD,C,F
	BT-59012-1	GUARANTY CARD,H
⚠ 11	LYT0194-001B	Q.CARD(JUK),C,F
12	YU30878	REGIST. CARD,C,F
13	LYT0867-001A	PAMPHLET(EK),C,F
14	LYT0609-001A	SHEET(CON.PLUG),G
15	QPA01703005	POLY BAG
16	QAM0347-001	CABLE ASSY,AUDIO/VIDEO CABLE
17	QQR0918-002	CORE FILTER
18	QAM0084-001	PC CONNECTION CABLE,A,B,C,D

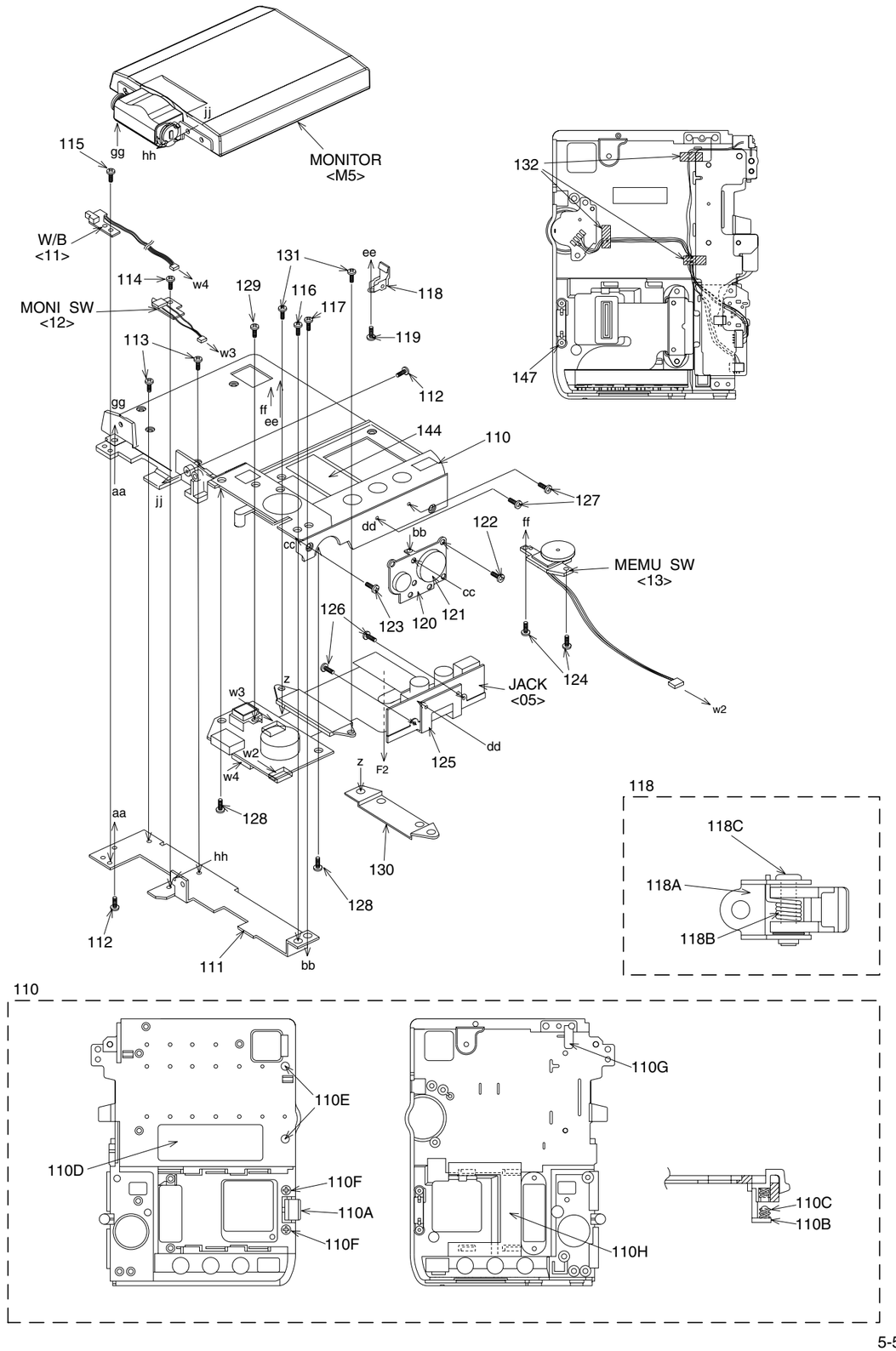
# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
19	QQR0491-002	CORE FILTER,A,B,C,D
20	QAM0214-001	RM(EDITING)CABLE,A,B,C,D
	PEAC0428-150	CABLE ASSY,EDITIND CABLE,E,F,G,H
21	QQR0491-002	CORE FILTER
⚠ 22	LY20847-001B	AC ADAPTER,AP-V12EG,A
	LY20847-001C	AC ADAPTER,AP-V12EG,B,C,D,E,F,G
⚠	LY20847-002B	AC ADAPTER,AP-V12ED,H
23	QQR0917-002	CORE FILTER
⚠ 24	QMPL120-190-JR	POWER CORD,A,B,D,E,G
⚠	QMPP110-190-JR	POWER CORD,C,F
⚠	QMPS120-190-JR	POWER CORD,H
25	QAM0324-001	USB CABLE,E,F,G,H
26	QQR0491-002	CORE FILTER,E,F,G,H
30	–	BATTERY,AAA(R03),X2
31	LY43501-001A	SLEEVE
32	LY32758-001A	GRIP BELT
33	LY43576-001A	HOOD CAP ASSY
⚠ 34	LY32752-001A	BATTERY PACK,BN-V306U
35	LY20750-001A	REMOTE CONTROL UNIT,RM-V717U
36	LY32210-022A	CD ROM ASSY,A,B,C,D
	LY32210-023A	CD ROM ASSY,E,F,G,H
37	QAM0302-001	ADAPTOR PLUG,A,B,C,D,E,F
38	QAM0404-002	MEMORY CARD,E,F,G,H,8MB(MMC)
⚠ 39	PEMC1012-02	CONVERSION PLUG,G
40	QPA02502505P	POLY BAG,B,D,E,F,G,H
45	LYT0974-001A	SHEET(ATT.),A,B,C,D

MODEL	MARK
GR-DVX400EG-X	A
GR-DVX400EG-Y	B
GR-DVX400EK	C
GR-DVX407EG-X	D
GR-DVX507EG-X	E
GR-DVX507EK	F
GR-DVX507A	G
GR-DVX509ED	H

- **INSTRUCTIONS**
  - GE ..... GERMAN
  - FR ..... FRENCH
  - DU ..... DUTCH
  - SP ..... SPANISH
  - IT ..... ITALIAN
  - DA ..... DANISH
  - FI ..... FINNISH
  - SW ..... SWEDISH
  - NO ..... NORWEGIAN
  - RU ..... RUSSIAN
  - EN ..... ENGLISH
  - CH ..... CHINESE
  - AR ..... ARABIC

5.2 FINAL ASSEMBLY <M2>





#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

FINAL ASSEMBLY <M2>

		101	LY20858-001A	FRONT COVER ASSY,A,B,C,D
			LY20858-002A	FRONT COVER ASSY,E,F,G,H
		101A	LY43478-001A	INDICATOR
		101B	LY43479-001A	WINDOW(IR)
		101C	LY30018-063A	SPECIAL SCREW,X2,A,B,C,D
		101D	LY32664-001A	HOOD
		101E	LY32665-001A	RING
		101F	LY32712-001A	DUMMY COVER(SD),A,B,C,D
		101G	LY30018-087A	SPECIAL SCREW,X2,A,B,C,D
		101H	LY43480-001A	WINDOW(STB),E,F,G,H
		102	LY30018-0B7A	SPECIAL SCREW
		103	LY30018-0F4A	SPECIAL SCREW
		104	LY30018-0A3A	SPECIAL SCREW
		105	LY32667-001A	COVER(SD)ASSY,E,F,G,H
		105A	LY32669-001A	HINGE ASSY,E,F,G,H
		105B	LY30018-0F3A	SPECIAL SCREW,X2,E,F,G,H
		106	LY43780-001A	SHEET(STB),E,F,G,H
		107	LY30018-063A	SPECIAL SCREW,X2,E,F,G,H
		108	LY30018-063A	SPECIAL SCREW,E,F,G,H
		109	LY30018-063A	SPECIAL SCREW,E,F,G,H
		110	LY32661-001B	UPPER CASE ASSY,A
			LY32661-001C	UPPER CASE ASSY,C
			LY32661-001D	UPPER CASE ASSY,B,D
			LY32661-002D	UPPER CASE ASSY,E,F,G,H
		110A	LY32662-001A	KNOB(LOCK)
		110B	LY32663-001A	HOLDER(KNOB)
		110C	LY30002-027A	COMPRESSION SPRING
		110D	LY43575-001A	SHEET(CAUTION)
		110E	LY42350-001A	FOOT,X2
		110F	LY30018-0G4A	SPECIAL SCREW,X2
		110G	LY43573-001A	SHEET(EARTH)
		110H	LY43826-001A	SHEET(UPPER)
		111	LY32697-001A	BRACKET(UPPER)
		112	LY30018-0F7A	SPECIAL SCREW,X2
		113	LY30018-006B	SPECIAL SCREW,X2
		114	LY30018-0E3A	SPECIAL SCREW
		115	LY30018-0E4A	SPECIAL SCREW
		116	LY30018-0E4A	SPECIAL SCREW
		117	LY30018-0E4A	SPECIAL SCREW
		118	LY43472-001A	MONI LOCK ASSY
		118A	LY43473-001A	BRACKET(MONI LOCK)
		118B	LY43474-001A	TORSION SPRING
		118C	LY30019-043A	SPECIAL SCREW
		119	LY30018-021A	SPECIAL SCREW
		120	LY43560-001A	BRACKET(BASE)
		121	LY32673-001A	BASE
		122	LY30018-063A	SPECIAL SCREW
		123	LY30018-0A3A	SPECIAL SCREW
		124	LY30018-063A	SPECIAL SCREW,X2
		125	LY32696-001A	BRACKET(JACK PWB)
		126	LY30018-032A	SPECIAL SCREW,X2
		127	LY30018-0E3A	SPECIAL SCREW,X2
		128	LY30018-063A	SPECIAL SCREW,X2
		129	LY30018-0E4A	SPECIAL SCREW
		130	LY43486-001A	BRACKET(TERMINAL)
		131	LY30018-0E4A	SPECIAL SCREW,X2
		132	LY30029-023A	SPACER(A),X3
		133	LY32639-001A	COVER(JACK),A,C
			LY32639-001B	COVER(JACK),B,D,E,F,G,H
		134	LY30018-012A	SPECIAL SCREW
		135	LY30018-0B7A	SPECIAL SCREW
		136	LY30018-065A	SPECIAL SCREW
		137	QYSPSGT1780R	SCREW,X2
		138	LY30018-0E4A	SPECIAL SCREW
		139	LY30018-0F6A	SPECIAL SCREW
		140	LY32677-002A	COVER(JIG)
		141	LY30018-026A	SPECIAL SCREW
		142	LY32678-001A	DUMMY BATTERY
		143	LY43483-001A	COVER(DV)ASSY
		144	LY43571-001A	STICKER
		145	LY43825-001A	SHEET(FRONT),E,F,G,H
		146	LY43637-001A	STICKER,D
			LY43637-002A	STICKER,A,B,C
			LY43637-003A	STICKER,E,F,G,H
		147	LY30029-0Z3A	SPACER(A)
	⚠	150	LY20841-001B	LOWER CASE ASSY,A,B,C,D
	⚠		LY20841-002B	LOWER CASE ASSY,E,F,G,H
		150A	LY43482-001A	SHAFT
		151	LY32656-001A	BRACKET(LOWER)
		152	LY30018-019A	SPECIAL SCREW,X2
		153	LY43513-001A	SHEET(ADJUST)
		154	LY30018-0E3A	SPECIAL SCREW,X4
		155	LY30018-063A	SPECIAL SCREW,X3
		156	LY30018-0E3A	SPECIAL SCREW
		157	LY30018-063A	SPECIAL SCREW
		158	LY30018-0F5A	SPECIAL SCREW
		159	LY30018-0A3A	SPECIAL SCREW
		160	LY30018-065A	SPECIAL SCREW
		161	LY20853-001A	TOP COVER
		162	LY32582-001A	MICROPHONE
		163	LY32655-001A	MIC COVER
		164	LY43568-001A	SHEET(MIC)
		165	LY43471-001A	BRACKET(TOP)
		167	LY30018-005A	SPECIAL SCREW,X2
		168	LY43569-001A	EARTH SHEET
		169	LY43763-001A	EARTH(MIC COV.)
		170	LY30018-012A	SPECIAL SCREW
		180	LY32702-001A	CASSETTE COVER ASSY,A,B,C,D
			LY32702-002A	CASSETTE COVER ASSY,E,F,G,H
		181	LY43462-001A	HOOK
		182	LY30018-038A	SPECIAL SCREW,X2
		183	LY30018-0E3A	SPECIAL SCREW,X4
		184	LY30018-0D5A	SPECIAL SCREW
		185	LY20850-001B	ARM ASSY
		185A	LY32652-001B	KNOB(LOCK)
		185B	LY30001-023A	TENSION SPRING
		185C	LY30018-0E8A	SPECIAL SCREW
		185D	LY43468-001A	SPACER(SPK)
		185E	LY32653-001A	PLATE(LOCK)
		186	LY20840-001B	CAMERA OPE UNIT
		187	LY30018-0E3A	SPECIAL SCREW,X2,A,B,C
			LY30018-0E3A	SPECIAL SCREW,X2,D,E,F,G,H
		188	QAS0103-001	SPEAKER
		189	LY43469-001A	BRACKET(SPK)
		190	LY30018-0E3A	SPECIAL SCREW,X2
		191	LY43810-001A	SHEET(ARM)
		192	LY30018-0E3A	SPECIAL SCREW,X2
		193	LY30029-0Z1A	SPACER(A)
		194	LY30029-0Z2A	SPACER(A)
		195	LY30029-0Y9A	SPACER(A)
		200	LY40698-002A	LABEL(HOUSING)
		201	LY40699-002A	LABEL(PUSH)
		202	LY43881-001A	BRACKET(MECHA)ASSY
		202A	LY43866-001A	SPACER(MECHA)
		203	LY30019-026A	SPECIAL SCREW,X2
		204	YQ43893-4	MINI SCREW
		205	LY30018-0E3A	SPECIAL SCREW
		206	LY30018-065A	SPECIAL SCREW
		207	LY30018-065A	SPECIAL SCREW
		208	YQ43893-4	MINI SCREW
		209	LY30018-0B7A	SPECIAL SCREW,A
			LY30018-063A	SPECIAL SCREW,B,C,D,E,F,G,H
		220	LY32681-001A	OP BRACKET(J7A)
		221	LY30019-042A	SPECIAL SCREW
		222	LY30018-0E3A	SPECIAL SCREW,X2

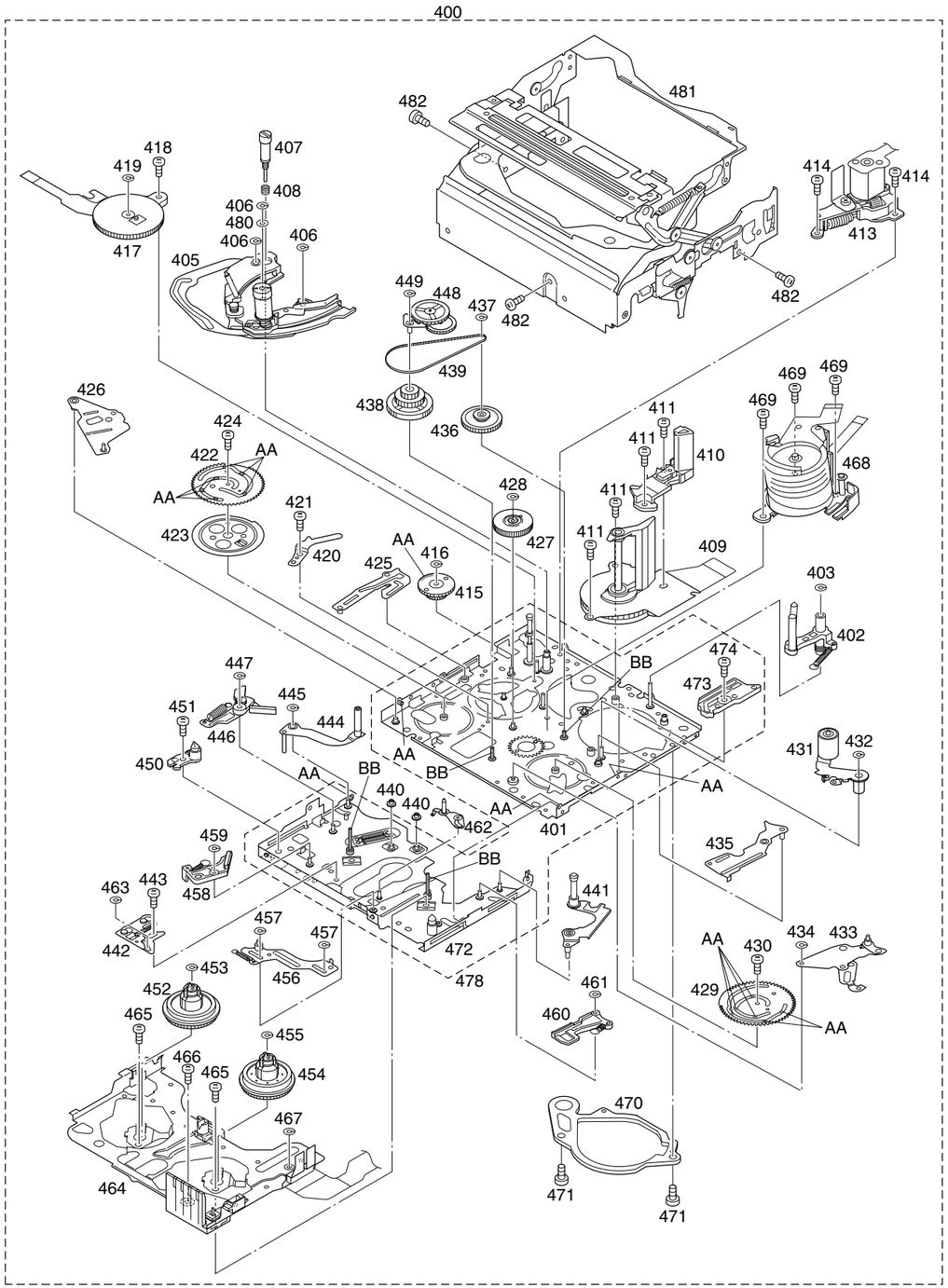
– OPTICAL BLOCK SECTION –

251	J7A-263A	OPTICAL BLOCK ASSY	
251A	LY30723-001B	ZOOM MOTOR	
251B	LY30724-001B	FOCUS MOTOR	
251C	LY30727-002A	SCREW,X5	
251D	LY30727-001A	SCREW,X2	
251E	LY42936-001A	OPTICAL LPF	
251F	LY31639-003A	SPACER RUBBER	
251G	QYSPSGU1750Z	SCREW,X2	
251H	LY32754-001A	IRIS MOTOR	
251J	LYH30375-004A	CCD BASE ASSY	

5.3 MECHANISM ASSEMBLY <M3>

BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

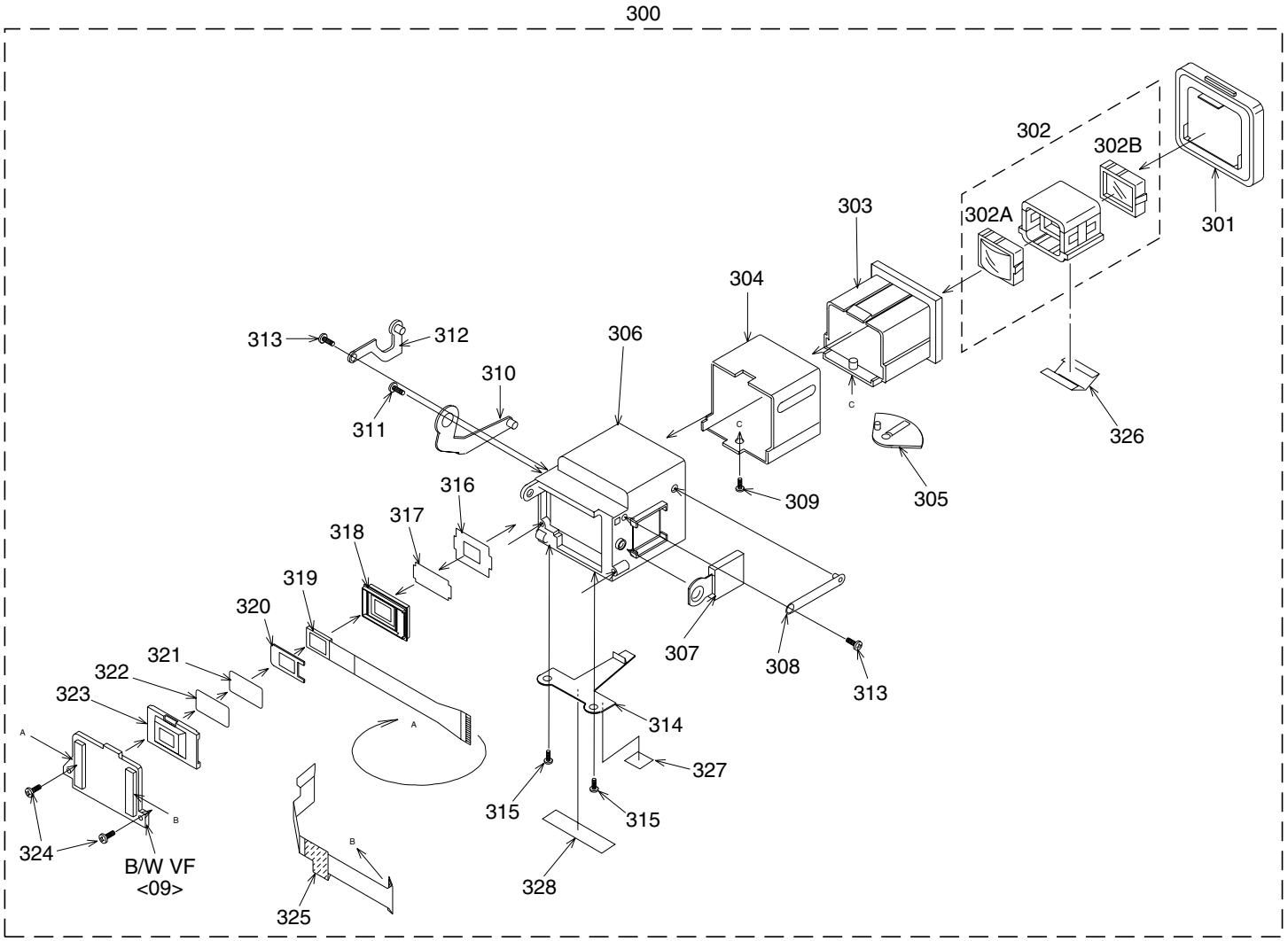
NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
**********		

MECHANISM ASSEMBLY <M3>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
400	YMA0025UCC/E	MECHA(A)ASSY
401	LY10240-001D	MAIN DECK ASSY
402	LY30436-001J	SLANT POLE ARM ASSY
403	YQ44246	SLIT WASHER
405	LY10080-001V	RAIL ASSY
406	YQ44246	SLIT WASHER,X3
407	LY40353-001D	GUIDE ROLLER(S)ASSY
408	LY30002-006C	COMPRESSION SPRING
409	QAR0026-002	CAPSTAN MOTOR
410	LY30504-001C	CATCHER(T)ASSY
411	YQ43893	MINI SCREW,X4
413	LY30448-001E	MOTOR BRACKET ASSY
414	YQ43893	MINI SCREW,X2
415	LY31840-001A	WORM WHEEL
416	YQ44246	SLIT WASHER
417	LY40496-001C	ROTARY ENCODER
418	YQ43893	MINI SCREW
419	YQ44246	SLIT WASHER
420	LY42632-001A	GEAR HOLDER
421	YQ43893-6	MINI SCREW
422	LY31841-001A	MAIN CAM
423	LY31842-001A	BRAKE CONTROL PLATE
424	YQ43893	MINI SCREW
425	LY42633-001A	TAKE UP CONTROL LEVER ASSY
426	LY31844-001A	SLIDE LEVER ASY
427	LY31846-001A	CONNECT GEAR
428	YQ44246	SLIT WASHER
429	LY31847-001A	SUB CAM
430	YQ43893	MINI SCREW
431	LY31785-001A	PINCHI ROLLER ARM UNIT
432	YQ44246	SLIT WASHER
433	LY31850-001A	CHARGE ARM ASSY
434	YQ44246	SLIT WASHER
435	LY42643-001A	BRAKE CONTROL LEVER ASSY
436	LY42645-001A	REEL DRIVE PULLEY ASSY
437	YQ44246-2	SLIT WASHER
438	LY40391-002B	CENTER GEAR ASSY
439	LY40396-001A	TIMING BELT
440	LY40413-001A	COLLAR,X2
441	LY31854-001A	GUIDE ARM ASSY
442	LY31786-001A	SLIDE GUIDE PLATE UNIT
443	YQ43893-2	MINI SCREW
444	LY42651-001B	TENSION ARM ASSY
445	YQ44246	SLIT WASHER
446	LY30471-001D	PAD ARM ASSY
447	YQ44246	SLIT WASHER
448	LY42745-001A	IDLER ARM ASSY
449	YQ44246-2	SLIT WASHER
450	LY31861-001A	GUIDE PIN(SUPPLY)
451	YQ43893	MINI SCREW
452	LY40441-001B	REEL DISK(SUPPLY)ASSY
453	YQ44246	SLIT WASHER
454	LY40443-001B	REEL DISK(TAKE UP)ASSY
455	YQ44246	SLIT WASHER
456	LY31788-001A	CONTROL PLATE UNIT
457	YQ44246	SLIT WASHER,X2
458	LY40444-001E	LOADING BRAKE ASSY
459	YQ44246	SLIT WASHER
460	LY40452-001C	SUB BRAKE ASSY
461	YQ44246	SLIT WASHER
462	LY31863-001B	RELEASE GUIDE ASSY
463	YQ44246	SLIT WASHER
464	LY20146-001H	REEL COVER ASSY
465	YQ43893-4	MINI SCREW,X2
466	YQ43893	MINI SCREW
467	YQ44246	SLIT WASHER
468	YDV2086R(CX)	DRUM ASSY
469	YQ43893	MINI SCREW,X3
470	LY20630-001A	PWB HOLDER
471	YQ43893	MINI SCREW,X2
472	LY10242-001A	SLIDE DECK ASSY
473	LY31833-001A	LOADING GUIDE
474	YQ43893	MINI SCREW
478	LY31832-001D	DECK ASSY
480	LY41573-001A	WASHER
481	LY31867-001B	CASSETTE HOUSING ASSY
482	YQ43893-4	MINI SCREW,X3

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4>



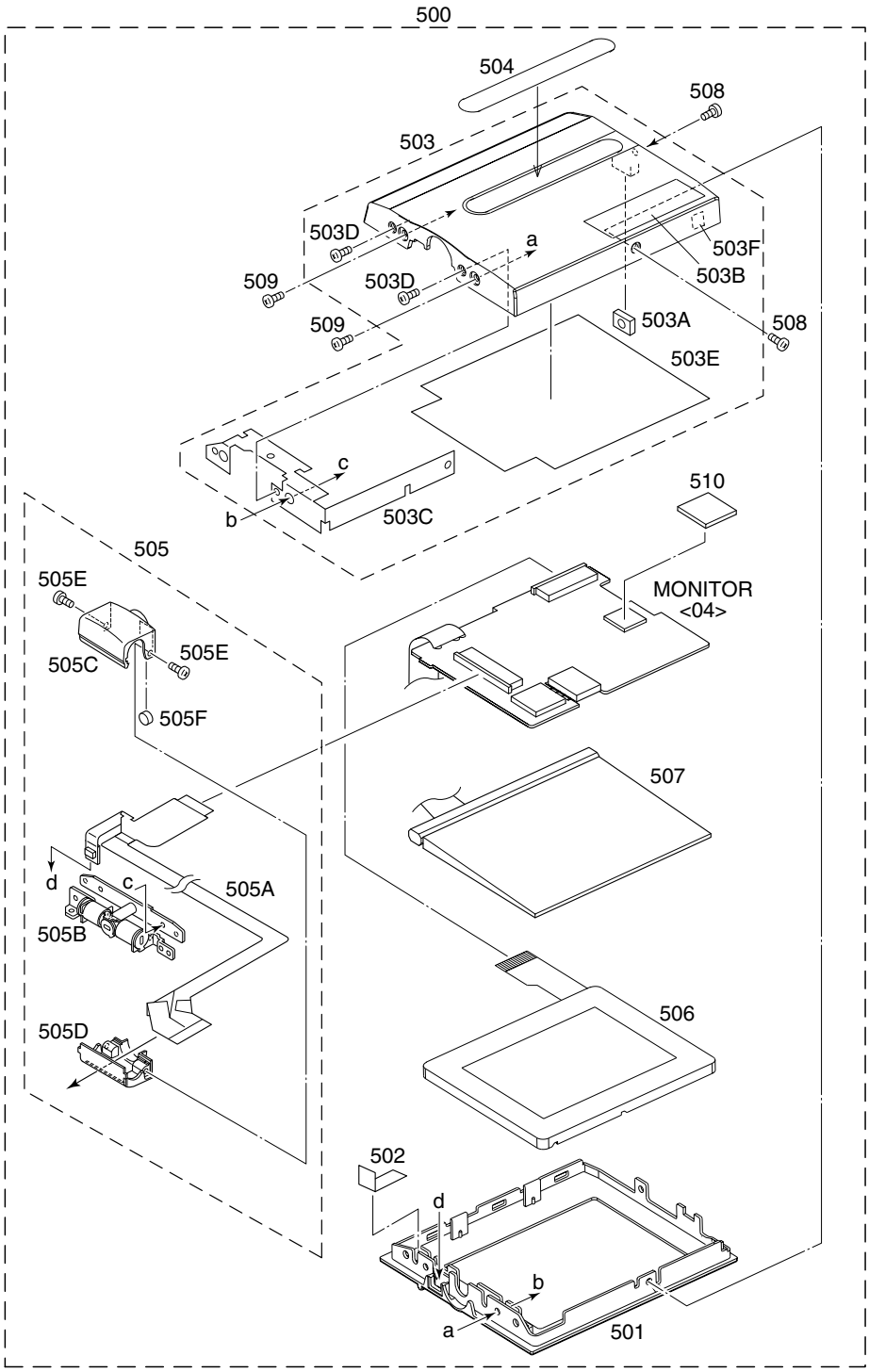
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

ELECTRONIC VIEWFINDER ASSEMBLY <M4>

300	LYH20449-001A	B/W VF ASSY
301	LY32609-001A	EYE CUP
302	LY32472-001A	LENS ASSY
302A	LY43356-001A	LENS(A)
302B	LY43357-001A	LENS(B)
303	LY32608-001B	CASE(VF)
304	LY32607-001B	TUBE(VF)
305	LY43424-001B	KNOB(VF)
306	LY32606-001B	HOLDER(VF),A,C
	LY32606-001C	HOLDER(VF),B
	LY32606-001D	HOLDER(VF),D,E,F,G,H
307	LY43426-001A	COVER(VF)
308	LY43427-001A	BRACKET ASSY
309	LY30018-026A	SPECIAL SCREW
310	LY43534-001A	LEVER(VF)ASSY
311	LY30018-0D7A	SPECIAL SCREW
312	LY43440-001A	BRACKET ASSY(L)
313	LY30018-063A	SPECIAL SCREW,X2
314	LY43445-001B	SPRING(LOCK)
315	LY30018-063A	SPECIAL SCREW,X2
316	LY43447-001A	SHEET
317	LY43446-001A	SHEET2(POLA)
318	LY32780-001A	HOLDER(LCD)
319	QLD0193-001	LCD MODULE
320	LY43613-001B	SHEET(CUSHION)
321	LY43448-001A	SHEET1(POLA)
322	LY43449-001A	SHEET(DIFF)
323	LY43444-001B	HOLDER(LED)
324	LY30018-063A	SPECIAL SCREW,X2
325	QAL0401-001	FPC
326	LY43868-001A	SPRING(LENS)
327	LY43867-001A	SHEET
328	LY30030-003A	SPACER(A)

5.5 MONITOR ASSEMBLY <M5>



#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

MONITOR ASSEMBLY <M5>

		500	LYH20434-001B	MONITOR ASSY
		501	LY20885-001B	MONITOR CASE,A
			LY20855-001C	MONITOR CASE,B,C,D,E,F,G,H
		502	LY30029-0G5A	SPACER(A)
		503	LY32694-001B	MONITOR COVER ASSY,A
			LY32694-001C	MONITOR COVER ASSY,C
			LY32694-001D	MONITOR COVER ASSY,B,D,E,F,G,H
		503A	LY43497-001A	BRACKET
		503B	LY42883-001B	MARK
		503C	LY32658-001A	BRACKET(MONI)
		503D	QYSPSPT1720R	SCREW,X2
		503E	LY43579-001A	SHEET(MONI)
		503F	LY30030-010A	SPACER(A),B,D,E,F,G,H
		504	LY43475-001A	WINDOW(MONI)
		505	LY32765-001A	MONI FPC ASSY
		505A	LY32605-001A	FPC ASSY(MONI)
		505B	LY31701-001C	HINGE ASSY
		505C	LY32659-001A	HINGE COVER(U)
		505D	LY32660-001A	HINGE COVER(L)
		505E	LY30018-063A	SPECIAL SCREW,X2
		505F	LY42355-001A	MAGNET
		506	QLD0138-001	LCD MODULE
		507	QLL0132-001	BACK LIGHT
		508	QYSPSPT1730D	SCREW,X2
		509	LY30018-099A	SPECIAL SCREW,X2
		510	LY30030-015A	SPACER(A),B,D,E,F,G,H

5.6 ELECTRICAL PARTS LIST

MODEL	MARK	MODEL	MARK
GR-DVX400EG-X	A	GR-DVX507EG-X	E
GR-DVX400EG-Y	B	GR-DVX507EK	F
GR-DVX400EK	C	GR-DVX507A	G
GR-DVX407EG-X	D	GR-DVX509ED	H

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

MAIN BOARD ASSEMBLY <01>

	PW	YB10373B-02	MAIN BOARD ASSY,E,F,G
		YB10373C-02	MAIN BOARD ASSY,H
		YB10373E-02	MAIN BOARD ASSY,D
		YB10373F-02	MAIN BOARD ASSY,A,B,C
	IC1001	UPD703039F1-A31	IC(MICRO C ROM)
		or UPD70F3040F1A31	IC(MICRO C ROM)
	IC1002	RS5C314	IC
	IC1003	X25170S8I-2.5-X	IC
		or CAT25C16SI	IC
		or AT25160N-10SC-X	IC
		or 25LC160-I/SN-X	IC
	IC1004	TC75S56FU	IC
	IC1005	TC7S00FU	IC
		or SN74AHC1G00K	IC
	IC1006	MB90097PFV145	IC(MICRO C ROM)
	IC1007	TC74VHC08FT	IC(DIGITAL)
		or SN74LV08APW	IC
	IC1008	IC-PST3423U-X	IC
	IC1301	SN74LV08APW	IC,A,B,C,D
	IC1302	MAX3221CAE	IC,A,B,C,D
		or ICL3221CA	IC,A,B,C,D
	IC1303	SN74LV02APW	IC
	IC1401	UPD703040YF-M10	IC(MICRO C ROM),D,E,F,G,H
		UPD703040YF-M12	IC(MICRO C ROM),A,B,C
		or UPD70F3040YFM10	IC(MICRO C ROM),D,E,F,G,H
		or UPD70F3040YFM12	IC(MICRO C ROM),A,B,C
	IC1402	TC7W66FK	IC,A,B,C,D
	IC3001	JCY0152	IC
	IC3004	SN74AHC1G04K	IC
	IC3007	JCY0174	IC
	IC3501	JCY0132	IC
	IC3502	SN74AHC1G04K	IC
	IC3701	BA7665FS	IC
	IC4201	HD49334F	IC
		or HD49334AF	IC
	IC4202	MM1385HN	IC
	IC4301	JCY0150	IC,A,C
		JCY0158	IC,B,D,E,F,G,H
	IC4302	MSM548331TA	IC(DIGITAL)
	IC4802	TA75W01FU	IC
	IC4803	TA75W01FU	IC
	IC4804	LM358DR2	IC
	IC4851	UPD16879GS	IC
	IC5501	JCY0117	IC
	IC6001	S-80842ANNP-W	IC
		or S-80842CNNB-W	IC
	IC6002	S-817A33ANB-W	IC
	IC6101	FA3698F	IC
	IC8001	TMS320DSC24GHK	IC,E,F,G,H
		or TMX320DSC24GHK	IC,E,F,G,H
	IC8002	K4S641632E-TC1H	IC,E,F,G,H
	IC8003	MBV160TE90PTA33	IC(MICRO C ROM),E,F,G,H
	IC8004	S-80842ANNP-W	IC,E,F,G,H
		or S-80842CNNB-W	IC,E,F,G,H
	IC8007	MM1385EN	IC,E,F,G,H
	Q1001	DTC124EE	DIGI TRANSISTOR
		or UN9212J	DIGI TRANSISTOR
	Q1002	2SC4617/QR/-X	TRANSISTOR
		or 2SD2216J/QR/-X	TRANSISTOR
	Q1003	DTC143EE	DIGI TRANSISTOR
		or UN921LJ	DIGI TRANSISTOR
	Q1005	2SJ347	MOS FET
	Q1006	UMC3N	DIGI TRANSISTOR
	Q1007	UMC3N	DIGI TRANSISTOR
	Q1301	2SC4617/QR/-X	TRANSISTOR
		or 2SD2216J/QR/-X	TRANSISTOR
	Q1401	DTA114EE	DIGI TRANSISTOR
		or PDTA114EE	DIGI TRANSISTOR
		or RN2102	DIGI TRANSISTOR
		or UN9111J	DIGI TRANSISTOR
	Q1402	UMC3N	DIGI TRANSISTOR
	Q1403	UMC3N	DIGI TRANSISTOR
	Q2701	UMX1N	PAIR TRANSISTOR
		or PUMX1	PAIR TRANSISTOR
	Q3701	UMT2N	PAIR TRANSISTOR
		or XP6401	TRANSISTOR
	Q3702	UMZ1N	PAIR TRANSISTOR
		or XP4601	TRANSISTOR
	Q4301	UMT2N	PAIR TRANSISTOR
		or XP6401	TRANSISTOR
	Q4302	UMT2N	PAIR TRANSISTOR
		or XP6401	TRANSISTOR
	Q4801	2SC4655/BC/-X	TRANSISTOR
	Q4802	2SC4617/RS/-X	TRANSISTOR,E,F,G,H
	Q4803	DTC144EE	DIGI TRANSISTOR,E,F,G,H
		or PDTC144EE	DIGI TRANSISTOR,E,F,G,H
		or RN1104	DIGI TRANSISTOR,E,F,G,H
		or UN9213J	DIGI TRANSISTOR,E,F,G,H
	Q4804	DTA144EE	DIGI TRANSISTOR,E,F,G,H
		or PDTA144EE	DIGI TRANSISTOR,E,F,G,H
		or RN2104	DIGI TRANSISTOR,E,F,G,H
		or UN9113J	DIGI TRANSISTOR,E,F,G,H
	Q4805	DTA143EE	DIGI TRANSISTOR,E,F,G,H
		or RN2101	DIGI TRANSISTOR,E,F,G,H
		or UN911LJ	DIGI TRANSISTOR,E,F,G,H
	Q4806	2SC4617/QR/-X	TRANSISTOR
	Q4851	2SC4617/RS/-X	TRANSISTOR
	Q6001	DTC144EE	DIGI TRANSISTOR
		or PDTC144EE	DIGI TRANSISTOR
		or RN1104	DIGI TRANSISTOR
		or UN9213J	DIGI TRANSISTOR
	Q6002	MCH6613	MOS FET
	Q6004	2SB1188/QR/-W	TRANSISTOR
	Q6201	MCH3308	MOS FET
	Q6202	2SA1577/RS/-X	TRANSISTOR
	Q6203	SSM5G01TU	MOS FET
	Q6204	MCH3308	MOS FET
	Q6205	CPH3101	TRANSISTOR
	Q6206	2SC4617/RS/-X	TRANSISTOR
	Q6208	SSM5G01TU	MOS FET
	Q6210	SSM5G01TU	MOS FET
	Q6211	MCH3308	MOS FET
	Q6212	HN1C01FU/G/-X	PAIR TRANSISTOR
		or PUMX1	PAIR TRANSISTOR
		or UMX1N	PAIR TRANSISTOR
	Q6213	2SA1577/RS/-X	TRANSISTOR
	Q6214	DTC144EE	DIGI TRANSISTOR
		or PDTC144EE	DIGI TRANSISTOR
		or RN1104	DIGI TRANSISTOR
		or UN9213J	DIGI TRANSISTOR
	Q6215	HN1A01FU/G/-X	PAIR TRANSISTOR
		or PUMT1	PAIR TRANSISTOR
		or UMT1N	PAIR TRANSISTOR

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
Q6216	2SC4617/RS/-X	TRANSISTOR	
Q6701	CPH3314	MOS FET	
Q8001	DTA114EE	DIGI TRANSISTOR,E,F,G,H	
D1001	DA221	DIODE	
D1301	1SS376	DIODE	
	or RSD376	DIODE	
D1302	1SS376	DIODE	
	or RSD376	DIODE	
D3001	EC2C01C	VARI CAP DIODE	
D3002	EC2C01C	VARI CAP DIODE	
D3003	EC2C01C	VARI CAP DIODE	
D3004	MA2Z720	SB DIODE	
D5501	1SS355	DIODE	
⚠ D6001	RB706D-40-X	SB DIODE	
⚠ D6002	RB715F	SB DIODE	
D6201	CRS01	SB DIODE	
D6203	CRS01	SB DIODE	
D6206	RB480Y	SB DIODE	
D6207	UDZS9.1B	ZENER DIODE	
D6208	RB480Y	SB DIODE	
D6701	EP10HY03	SB DIODE	
D6702	EP10HY03	SB DIODE	
D8001	RB751V-40-X	SB DIODE,E,F,G,H	
R1001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1002	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R1003	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1005	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R1006	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1007	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1008	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1009	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R1010	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R1015	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1016	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1019	NRSA6AJ-623W	MG RESISTOR	62kΩ,1/16W
R1020	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1021	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1022	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1023	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1024	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1026	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1027	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1028	NRSA6AJ-185W	MG RESISTOR	1.8MΩ,1/16W
R1029	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1030	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1031	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1032	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1033	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1034	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1036	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1038	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1039	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1044	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1045	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R1046	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1047	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1048	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1049	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R1050	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1051	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1052	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R1053	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1054	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1055	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1056	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1057	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1058	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1059	NRSA6AJ-0R0W	MG RESISTOR,A,B,C,D	0Ω,1/16W
R1060	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1066	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1071	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1072	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1076	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1077	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1078	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1079	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1080	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1081	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1082	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1083	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1302	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1306	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1307	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
R1308	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
R1401	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1402	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1403	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1404	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1405	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1406	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1407	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1408	NRSA6AD-753W	MG RESISTOR	75kΩ,1/16W
R1409	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1411	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1412	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1413	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1414	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1415	NRSA6AJ-472W	MG RESISTOR,E,F,G,H	4.7kΩ,1/16W
R1416	NRSA6AJ-472W	MG RESISTOR,E,F,G,H	4.7kΩ,1/16W
R1417	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R1420	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1421	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1422	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R1423	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R1424	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1425	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1427	NRSA6AJ-104W	MG RESISTOR,A,B,C,D	100kΩ,1/16W
R2701	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2702	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2703	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2704	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2705	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3003	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ,1/16W
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3029	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3033	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3036	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3037	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R3040	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3041	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3042	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3043	NRSA6AJ-122W	MG RESISTOR	1.2kΩ,1/16W
R3044	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3045	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3046	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3049	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3057	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3059	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3071	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3501	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3502	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3503	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3504	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3505	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3506	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3507	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3508	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3511	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3521	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3522	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3701	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3702	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3703	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3706	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R3707	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R3708	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3713	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3714	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3717	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3718	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3719	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3724	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4203	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4205	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4207	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4208	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4209	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R4210	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R4211	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4301	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4302	NRSA6AJ-101W	MG RESISTOR,E,F,G,H	100Ω,1/16W
R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R4307	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
R4308	NRSA6AD-682W	MG RESISTOR	6.8kΩ,1/16W
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4311	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4312	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4313	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4314	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R4315	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
R4316	NRSA6AD-131W	MG RESISTOR	130Ω,1/16W
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4318	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4319	NRSA6AD-131W	MG RESISTOR	130Ω,1/16W
R4320	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4321	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4322	NRSA6AD-131W	MG RESISTOR	130Ω,1/16W
R4323	NRSA6AD-820W	MG RESISTOR	82Ω,1/16W
R4324	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4326	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4327	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4338	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4340	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4346	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R4347	NRSA6AJ-223W	MG RESISTOR,A,C	22kΩ,1/16W
R4348	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4349	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4350	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4351	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4804	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ,1/16W
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4825	NRSA6AJ-222W	MG RESISTOR,E,F,G,H	2.2kΩ,1/16W
R4826	NRSA6AJ-473W	MG RESISTOR,E,F,G,H	47kΩ,1/16W
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4841	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4842	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
	R4844	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
	R4846	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R4856	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4857	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
	R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R4862	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4863	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R4870	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
	R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5501	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5503	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5504	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5505	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5506	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5507	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5509	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
	R5510	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
	R5511	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
	R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6003	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
	R6004	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
	R6005	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
⚠	R6008	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
⚠	R6009	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R6010	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6011	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6012	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
	R6013	NRSA6AD-683W	MG RESISTOR	68kΩ,1/16W
	R6101	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
	R6102	NRSA6AD-471W	MG RESISTOR	470Ω,1/16W
	R6103	NRSA6AD-622W	MG RESISTOR	6.2kΩ,1/16W
	R6106	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
	R6107	NRSA6AD-562W	MG RESISTOR	5.6kΩ,1/16W
	R6108	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
	R6113	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R6114	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R6115	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R6116	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
	R6117	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R6118	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6124	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6201	NRSA6AD-223W	MG RESISTOR	22kΩ,1/16W
	R6202	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
	R6203	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
	R6204	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6205	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6206	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
	R6207	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
	R6208	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
	R6209	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
	R6210	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
	R6212	NRSA6AD-472W	MG RESISTOR	4.7kΩ,1/16W
	R6213	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R6214	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
	R6215	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6219	NRSA6AD-243W	MG RESISTOR	24kΩ,1/16W
	R6220	NRSA6AD-302W	MG RESISTOR	3kΩ,1/16W
	R6221	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
	R6222	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
	R6223	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
	R6224	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
	R6225	NRSA6AD-562W	MG RESISTOR	5.6kΩ,1/16W
	R6226	NRSA6AD-223W	MG RESISTOR	22kΩ,1/16W
	R6227	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
	R6228	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
	R6229	NRSA6AD-332W	MG RESISTOR	3.3kΩ,1/16W
	R6230	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
	R6231	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
	R6232	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
	R6233	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
	R6234	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
	R6235	NRSA6AD-683W	MG RESISTOR	68kΩ,1/16W
	R6236	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
	R6237	NRSA6AD-753W	MG RESISTOR	75kΩ,1/16W
	R6238	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
	R6239	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R6240	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
	R6241	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6242	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6243	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω,1/2W
	R6702	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
	R6703	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
	R6704	NRSA6AD-823W	MG RESISTOR	82kΩ,1/16W
	R6705	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
	R8001	NRSA6AJ-103W	MG RESISTOR,E,F,G,H	10kΩ,1/16W
	R8002	NRSA6AJ-103W	MG RESISTOR,E,F,G,H	10kΩ,1/16W
	R8003	NRSA6AJ-103W	MG RESISTOR,E,F,G,H	10kΩ,1/16W
	R8005	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8006	NRSA6AJ-153W	MG RESISTOR,E,F,G,H	15kΩ,1/16W
	R8007	NRSA6AJ-472W	MG RESISTOR,E,F,G,H	4.7kΩ,1/16W
	R8009	NRSA6AJ-472W	MG RESISTOR,E,F,G,H	4.7kΩ,1/16W
	R8016	NRSA6AJ-103W	MG RESISTOR,E,F,G,H	10kΩ,1/16W
	R8017	NRSA6AJ-103W	MG RESISTOR,E,F,G,H	10kΩ,1/16W
	R8020	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8022	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8025	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8027	NRSA6AJ-152W	MG RESISTOR,E,F,G,H	1.5kΩ,1/16W
	R8028	NRS181J-270X	MG RESISTOR,E,F,G,H	27Ω,1/8W
	R8029	NRS181J-270X	MG RESISTOR,E,F,G,H	27Ω,1/8W
	R8030	NRSA6AJ-105W	MG RESISTOR,E,F,G,H	1MΩ,1/16W
	R8031	NRSA6AJ-105W	MG RESISTOR,E,F,G,H	1MΩ,1/16W
	R8032	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8034	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8036	NRSA6AJ-105W	MG RESISTOR,E,F,G,H	1MΩ,1/16W
	R8037	NRSA6AJ-103W	MG RESISTOR,E,F,G,H	10kΩ,1/16W
	R8046	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8063	NRSA6AJ-220W	MG RESISTOR,E,F,G,H	22Ω,1/16W
	R8065	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	R8066	NRSA6AJ-473W	MG RESISTOR,E,F,G,H	47kΩ,1/16W
	R8069	NRSA6AJ-0R0W	MG RESISTOR,E,F,G,H	0Ω,1/16W
	RA1008	NRZ0034-104W	NETWORK RESISTOR	100kΩ
	RA1009	NRZ0034-104W	NETWORK RESISTOR	100kΩ

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
RA1010	NRZ0034-104W	NETWORK RESISTOR	100kΩ
RA1401	NRZ0034-473W	NETWORK RESISTOR	47kΩ
RA3001	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA3002	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA3003	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA3004	NRZ0034-103W	NETWORK RESISTOR	10kΩ
RA3005	NRZ0040-0R0X	NETWORK RESISTOR	0Ω
RA4201	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA4202	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA4301	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA4302	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA4303	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA4307	NRZ0034-181W	NETWORK RESISTOR,E,F,G,H	180Ω
RA4308	NRZ0034-181W	NETWORK RESISTOR,E,F,G,H	180Ω
RA4309	NRZ0034-181W	NETWORK RESISTOR,E,F,G,H	180Ω
RA4310	NRZ0034-181W	NETWORK RESISTOR,E,F,G,H	180Ω
RA8001	NRZ0034-101W	NETWORK RESISTOR,E,F,G,H	100Ω
RA8002	NRZ0034-101W	NETWORK RESISTOR,E,F,G,H	100Ω
RA8003	NRZ0034-101W	NETWORK RESISTOR,E,F,G,H	100Ω
RA8004	NRZ0034-101W	NETWORK RESISTOR,E,F,G,H	100Ω
C1003	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C1004	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1006	NDCA1HJ-130W	CAPACITOR	13pF,50V
C1007	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1009	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1010	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1015	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1016	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1017	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1018	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1019	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1023	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1026	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1027	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1028	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1029	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1030	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1031	NCF31AZ-105X	CAPACITOR	1µF,10V
C1034	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1036	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1037	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1038	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1039	NCFA1HZ-103W	CAPACITOR	0.01µF,50V
C1301	NCFA1AZ-104W	CAPACITOR,A,B,C,D	0.1µF,10V
C1302	NCFA1AZ-104W	CAPACITOR,A,B,C,D	0.1µF,10V
C1303	NCFA1AZ-104W	CAPACITOR,A,B,C,D	0.1µF,10V
C1304	NCFA1AZ-104W	CAPACITOR,A,B,C,D	0.1µF,10V
C1305	NCFA1AZ-104W	CAPACITOR,A,B,C,D	0.1µF,10V
C1306	NCFA1AZ-104W	CAPACITOR,A,B,C,D	0.1µF,10V
C1307	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1401	NDCA1HJ-150W	CAPACITOR	15pF,50V
C1402	NDCA1HJ-150W	CAPACITOR	15pF,50V
C1403	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1404	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1405	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1406	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1407	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1409	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1410	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1411	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1412	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1413	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1414	NCBA1CK-223W	CAPACITOR	0.022µF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C1415	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1416	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3001	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3003	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3005	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3007	NCB10JK-106X	CAPACITOR	10µF,6.3V
C3008	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3011	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3012	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3013	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3014	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3015	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3016	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3017	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3020	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3021	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3022	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3023	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3024	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3025	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3026	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3027	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C3028	NDCA1EJ-271W	CAPACITOR	270pF,25V
C3029	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3030	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3031	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3032	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3033	NDCA1HJ-8R0W	CAPACITOR	8pF,50V
C3036	NDCA1HJ-8R0W	CAPACITOR	8pF,50V
C3037	NDCA1HJ-8R0W	CAPACITOR	8pF,50V
C3038	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3039	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3042	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3043	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3044	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3045	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3046	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3048	NCB31CK-473X	CAPACITOR	0.047µF,16V
C3049	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C3050	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3051	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3052	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C3054	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3055	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3057	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
C3061	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3064	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3501	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3502	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3503	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3504	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C3505	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C3506	NCB21AK-105X	CAPACITOR	1µF,10V
C3507	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3508	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3509	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3510	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3511	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3512	NCB31CK-104X	CAPACITOR	0.1µF,16V
C3513	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3514	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C3515	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C3516	NCBA1AK-473W	CAPACITOR	0.047µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3517	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3518	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3519	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3520	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3521	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3522	NCB20JM-475X	CAPACITOR	4.7µF,6.3V
C3523	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3524	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3525	NCB20JM-475X	CAPACITOR	4.7µF,6.3V
C3526	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3527	NDCA1EJ-221W	CAPACITOR	220pF,25V
C3528	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3701	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3702	NDCA1HJ-151W	CAPACITOR	150pF,50V
C3703	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3704	NDCA1HJ-101W	CAPACITOR	100pF,50V
C3705	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3706	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3707	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3708	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3709	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3710	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3711	NBE20GM-226X	T CAPACITOR	22µF,4.0V
C3712	NBE20GM-107X	T CAPACITOR	100µF,4.0V
C4201	NBE20GM-107X	T CAPACITOR	100µF,4.0V
C4202	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4203	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4204	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4205	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4206	NCB21CK-105X	CAPACITOR	1µF,16V
C4207	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4208	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4209	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4210	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4211	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4212	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4213	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4214	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4215	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4216	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4217	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4301	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4303	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4304	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4305	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4306	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4307	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4308	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4312	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4313	NBE20JM-226X	T CAPACITOR	22µF,6.3V
C4314	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4315	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4317	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4318	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4319	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4320	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4321	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4323	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4324	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4325	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4327	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4328	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4329	NCBA1AK-104W	CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C4331	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4333	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4334	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4335	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4336	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4337	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4338	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4339	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4340	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4341	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4342	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4343	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4344	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4345	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4346	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4347	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4348	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4349	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4350	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4803	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4804	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4806	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4808	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4809	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4810	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4811	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4812	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4813	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4814	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4815	NCB31HK-152X	CAPACITOR	0.0015µF,50V
C4819	NCB31CK-104X	CAPACITOR	0.1µF,16V
C4822	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4851	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4852	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C4853	NBE21AM-335X	T CAPACITOR	3.3µF,10V
C4854	NBE21AM-106X	T CAPACITOR	10µF,10V
C4855	NCB31CK-104X	CAPACITOR	0.1µF,16V
C4858	NDCA1HJ-330W	CAPACITOR	33pF,50V
C4859	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4860	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4861	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4862	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C4864	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C4865	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5501	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5503	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5504	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5505	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5506	NBE40GM-476X	T CAPACITOR	47µF,4.0V
C5507	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5508	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5509	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5510	NBP21VM-105X	T CAPACITOR	1µF,35V
C5511	NBP21DM-475X	T CAPACITOR	4.7µF,20V
C5512	NBE21AM-106X	T CAPACITOR	10µF,10V
C5513	NCB31CK-104X	CAPACITOR	0.1µF,16V
C5514	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5515	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5516	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5517	NCB31CK-104X	CAPACITOR	0.1µF,16V
C5518	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C5519	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6001	NCBA1CK-103W	CAPACITOR	0.01µF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C6002	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6003	NBE80JM-106X	T CAPACITOR	10µF,6.3V
C6004	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6005	NDCA1HJ-101W	CAPACITOR	100pF,50V
C6101	NCB21CK-105X	CAPACITOR	1µF,16V
C6102	NBP41DM-106X	T CAPACITOR	10µF,20V
C6103	NCB21CK-105X	CAPACITOR	1µF,16V
C6105	NCB21CK-105X	CAPACITOR	1µF,16V
C6106	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6107	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6108	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6109	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6110	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6111	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6112	NCBA1AK-333W	CAPACITOR	0.033µF,10V
C6113	NCBA1HK-561W	CAPACITOR	560pF,50V
C6114	NCBA1HK-272W	CAPACITOR	0.0027µF,50V
C6115	NCBA1HK-561W	CAPACITOR	560pF,50V
C6116	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6117	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6118	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6119	NDCA1HJ-101W	CAPACITOR	100pF,50V
C6120	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6121	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6122	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C6123	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6124	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6125	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6126	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6127	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C6128	NCB21CK-105X	CAPACITOR	1µF,16V
C6129	NCBA1HK-561W	CAPACITOR	560pF,50V
C6130	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6131	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6132	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6134	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C6201	NCB21CK-105X	CAPACITOR	1µF,16V
C6202	NCB10JK-106X	CAPACITOR	10µF,6.3V
C6203	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C6204	NCBA1HK-561W	CAPACITOR	560pF,50V
C6205	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6206	NCB21CK-105X	CAPACITOR	1µF,16V
C6207	NCB10JK-106X	CAPACITOR	10µF,6.3V
C6208	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C6209	NCB21CK-105X	CAPACITOR	1µF,16V
C6210	NCB10JK-106X	CAPACITOR	10µF,6.3V
C6211	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C6214	NCB21CK-105X	CAPACITOR	1µF,16V
C6215	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6216	NCBA1AK-683W	CAPACITOR	0.068µF,10V
C6217	NCB21CK-105X	CAPACITOR	1µF,16V
C6218	NCB30JK-105X	CAPACITOR	1µF,6.3V
C6219	NCB21CK-224X	CAPACITOR	0.22µF,16V
C6220	NCB21CK-105X	CAPACITOR	1µF,16V
C6221	NCB21CK-105X	CAPACITOR	1µF,16V
C6222	NCB11EK-105X	CAPACITOR	1µF,25V
C6224	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C6225	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6226	NCB21CK-105X	CAPACITOR	1µF,16V
C6227	NCB21CK-105X	CAPACITOR	1µF,16V
C6228	NCB11EK-105X	CAPACITOR	1µF,25V
C6230	NCB21CK-105X	CAPACITOR	1µF,16V
C6701	NCB21CK-105X	CAPACITOR	1µF,16V
C6703	NCB21CK-105X	CAPACITOR	1µF,16V
C8001	NBE20JM-106X	T CAPACITOR,E,F,G,H	10µF,6.3V
C8002	NBE20JM-106X	T CAPACITOR,E,F,G,H	10µF,6.3V
C8003	NBE20JM-106X	T CAPACITOR,E,F,G,H	10µF,6.3V
C8004	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8005	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8006	NBE20JM-106X	T CAPACITOR,E,F,G,H	10µF,6.3V
C8007	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8008	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8010	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8011	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8014	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8015	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8016	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8017	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8018	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8019	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8020	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8021	NBE20JM-106X	T CAPACITOR,E,F,G,H	10µF,6.3V
C8027	NCB30JK-105X	CAPACITOR,E,F,G,H	1µF,6.3V
C8028	NCBA1AK-104W	CAPACITOR,E,F,G,H	0.1µF,10V
C8029	NBE20JM-106X	T CAPACITOR,E,F,G,H	10µF,6.3V
C8030	NCBA1CK-103W	CAPACITOR,E,F,G,H	0.01µF,16V
L1002	NQL315K-100X	COIL	10µH
L1401	NQR0006-001X	FERRITE BEAD	
L3001	NQR0129-002X	FERRITE BEAD	
L3002	NQR0129-002X	FERRITE BEAD	
L3004	NQR0006-001X	FERRITE BEAD	
L3005	NQR0006-001X	FERRITE BEAD	
L3006	NQR0006-001X	FERRITE BEAD	
L3007	NQL085J-2R2X	COIL	2.2µH
L3008	NQL085J-120X	COIL	12µH
L3015	NQR0006-001X	FERRITE BEAD	
L3501	NQR0129-002X	FERRITE BEAD	
L3502	NQL402M-100X	COIL	10µH
L3503	NQR0006-001X	FERRITE BEAD	
L3504	NQR0006-001X	FERRITE BEAD	
L3505	NQR0006-001X	FERRITE BEAD	
L3701	NQL38DK-100X	COIL	10µH
L4201	NQR0129-002X	FERRITE BEAD	
L4202	NQR0129-002X	FERRITE BEAD	
L4301	NQR0129-002X	FERRITE BEAD	
L4303	NQL315K-100X	COIL	10µH
L4304	NQL315K-220X	COIL	22µH
L4305	NQR0129-002X	FERRITE BEAD	
L4306	NQR0129-002X	FERRITE BEAD	
L4307	NQL315K-100X	COIL	10µH
L4802	NQL302N-100X	COIL	10µH
L4851	NQR0129-002X	FERRITE BEAD	
L4852	NQL315K-100X	COIL	10µH
L4853	NQL315K-100X	COIL	10µH
L5501	NQL315K-100X	COIL	10µH
L5502	NQR0129-002X	FERRITE BEAD	
L5503	NQR0129-002X	FERRITE BEAD	
L5504	NQR0129-002X	FERRITE BEAD	
L5505	NQL315K-100X	COIL	10µH
L5506	NQL315K-100X	COIL	10µH
L6101	NQL64EM-4R7X	COIL	4.7µH
L6102	NQL64EM-4R7X	COIL	4.7µH
L6201	NQL52EM-390X	COIL	39µH
L6202	NQL52EM-390X	COIL	39µH
L6203	NQL52EM-390X	COIL	39µH
L6204	NQL144K-220X	COIL	22µH

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		L6206	NQL62EM-470X	COIL	47µH
		L6207	NQL62EM-470X	COIL	47µH
		L6208	NQLZ011-221X	COIL	220µH
		L6701	NQL64EM-100X	COIL	10µH
		L8001	NQR0129-002X	FERRITE BEAD,E,F,G,H	
		L8002	NQR0129-002X	FERRITE BEAD,E,F,G,H	
		L8003	NQR0129-002X	FERRITE BEAD,E,F,G,H	
		L8004	NQR0129-002X	FERRITE BEAD,E,F,G,H	
		L8006	NQR0129-002X	FERRITE BEAD,E,F,G,H	
		X1001	NAX0474-001X	C OSCILLATOR	
		X1002	NAX0325-001X	CRYSTAL RESONATOR	
		X1401	NAX0204-001X	CRYSTAL RESONATOR	
		X3002	NAX0206-001X	CRYSTAL RESONATOR	
		X5501	NAX0356-001X	CXO	
		X8002	NAX0398-001X	C OSCILLATOR,E,F,G,H	
		FW1	QAL0402-001	FPC,CN109-SD CN601,E,F,G,H	
		CN101	QGB0406L1-60X	CONNECTOR	
		CN102	QGB0405L1-60X	CONNECTOR	
		CN103	QGB0405L1-60X	CONNECTOR	
		CN104	QGF0301F1-45X	FPC CONNECTOR	
		CN105	QGB0512L4-40X	CONNECTOR	
		CN106	QGF0503F2-06X	FFC/FPC CONNECTOR	
		CN107	QGF0503F4-20X	FFC/FPC CONNECTOR	
		CN108	QGF0503F4-24X	FFC/FPC CONNECTOR	
		CN109	QGF0507F3-20X	FFC/FPC CONNECTOR,E,F,G,H	
		CN110	QGF0505F2-08X	FPC CONNECTOR	
	⚠	F6101	NMFZ007-2R0X-K	FUSE	T2.0A
		OT1	LY30029-0U3A	SPACER(A)	
		OT2	LY43832-001A	SHEET(MAIN PWB)	
		SD1	LY43488-001A	SHIELD CASE	

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MDA BOARD ASSEMBLY <02>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		PW	YB10376A-01	MDA BOARD ASSY	
	⚠	IC1601	BD6631KV	IC	
		IC1602	TC7W14FU	IC(DIGITAL)	
			or SN74AHC2G14T	IC	
		IC1801	RPM7138-V4	IR DETECT UNIT	
		Q1601	UMC3N	DIGI TRANSISTOR	
		D1602	DAP222	DIODE	
		D1603	DAP222	DIODE	
		D1604	DAP222	DIODE	
		D1801	TLSU1002/LM/-X	LE DIODE	
		R1601	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
		R1602	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
		R1603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1604	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1605	NRV142F-R22X	CMF RESISTOR	0.22Ω,1/4W
		R1609	NRV142F-R33X	CMF RESISTOR	0.33Ω,1/4W
		R1610	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		R1611	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		R1612	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1613	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1614	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1615	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1616	NRSA6AJ-391W	MG RESISTOR	390Ω,1/16W
		R1617	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
		R1618	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
		R1619	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
		R1620	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1621	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1622	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1624	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
		R1625	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
		R1626	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
		R1628	NRVA6AD-271W	CMF RESISTOR	270Ω,1/16W
		R1629	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
		R1630	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1631	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1635	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1636	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1637	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
		R1801	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
		R1802	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		C1601	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1602	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C1603	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C1605	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1606	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
		C1607	NCBA1AK-473W	CAPACITOR	0.047µF,10V
		C1614	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C1618	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
		C1619	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
		C1620	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
		C1621	NCB30JK-105X	CAPACITOR	1µF,6.3V
		C1622	NCBA1CK-223W	CAPACITOR	0.022µF,16V
		C1623	NCBA1AK-473W	CAPACITOR	0.047µF,10V
		C1624	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1625	NCBA1AK-473W	CAPACITOR	0.047µF,10V
		C1626	NCBA1HK-331W	CAPACITOR	330pF,50V
		C1627	NCBA1CK-822W	CAPACITOR	0.0082µF,16V
		C1628	NCB21CK-224X	CAPACITOR	0.22µF,16V
		C1632	NBE20JM-106X	T CAPACITOR	10µF,6.3V
		C1633	NCB21CK-474X	CAPACITOR	0.47µF,16V
		C1641	NCB21CK-474X	CAPACITOR	0.47µF,16V
		C1801	NBE21AM-106X	T CAPACITOR	10µF,10V
	⚠	BT1801	QAB0041-001	LI BATTERY	
		CN201	QGF0505F2-06X	FPC CONNECTOR	
		CN202	QGF0505F2-11X	FPC CONNECTOR	
		CN203	QGF0505F2-18X	FPC CONNECTOR	
		CN204	QGF0507F3-15X	FFC/FPC CONNECTOR	
		CN205	QGB0405M1-60X	CONNECTOR	
		CN206	QGF0508F1-14X	FPC CONNECTOR	
		OT1	LY30016-0N9A	SPACER-A,A	
			LY43874-001A	SPACER,B,C,D,E,F,G	
		OT2	LY30029-0W1A	SPACER(A)	

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CCD BOARD ASSEMBLY <03>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		PW	YB10375B	CCD BOARD ASSY,E,F,G,H	
			YB10375C	CCD BOARD ASSY,A,B,C,D	
		Q5201	2SC3931/CD/-X	TRANSISTOR	
		Q5202	2SC4081/RS/-X	TRANSISTOR,E,F,G,H	
		R5201	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
		R5202	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
		R5203	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
		R5205	NRSA02J-472X	MG RESISTOR,E,F,G,H	4.7kΩ,1/10W
		C5201	NCB21CK-104X	CAPACITOR	0.1µF,16V

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C5202	NBP41DM-106X	T CAPACITOR	10µF,20V
	C5203	NCB21CK-104X	CAPACITOR	0.1µF,16V
	C5204	NBE21AM-106X	T CAPACITOR	10µF,10V
	C5205	NCB11EK-104X	CAPACITOR	0.1µF,25V
	C5206	NCB21CK-104X	CAPACITOR	0.1µF,16V
	C5207	NCB31EK-222X	CAPACITOR	0.0022µF,25V
	C5211	NCB21CK-105X	CAPACITOR	1µF,16V
	L5201	NQL315K-100X	COIL	10µH

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MONITOR BOARD ASSEMBLY <04>

	PW	YB10381B-01	MONITOR BOARD ASSY
	IC7601	AN2540FHQ	IC
	IC7602	BA4558F	IC
	IC7603	AT25040N-10SC-X	IC
		or 25LC040-I/SN-X	IC
	IC7604	SN74LV08APW	IC
	Q7501	2SD1664/QR/-W	TRANSISTOR
	Q7502	2SD1664/QR/-W	TRANSISTOR
	Q7503	DTA144EE	DIGI TRANSISTOR
		or RN2104	DIGI TRANSISTOR
		or UN9113J	DIGI TRANSISTOR
	Q7504	2SC4617/QR/-X	TRANSISTOR
		or 2SC4738/YG/-X	TRANSISTOR
	Q7601	2SC4617/QR/-X	TRANSISTOR
		or 2SC4738/YG/-X	TRANSISTOR
	Q7602	2SA1774/QR/-X	TRANSISTOR
		or 2SA1832/YG/-X	TRANSISTOR
	Q7603	2SC4617/QR/-X	TRANSISTOR
		or 2SC4738/YG/-X	TRANSISTOR
	Q7604	2SA1774/QR/-X	TRANSISTOR
		or 2SA1832/YG/-X	TRANSISTOR
	Q7608	DTC144EE	DIGI TRANSISTOR
		or RN1104	DIGI TRANSISTOR
		or UN9213J	DIGI TRANSISTOR
	Q7609	DTC144EE	DIGI TRANSISTOR
		or RN1104	DIGI TRANSISTOR
		or UN9213J	DIGI TRANSISTOR
	Q7610	DTA144EE	DIGI TRANSISTOR
		or UN9113J	DIGI TRANSISTOR
		or RN2104	DIGI TRANSISTOR
	D7601	RB480Y	SB DIODE
	R7501	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W
	R7502	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W
	R7503	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W
	R7506	NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W
	R7507	NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W
	R7601	NRVA6AD-622W	CMF RESISTOR 6.2kΩ,1/16W
	R7602	NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
	R7603	NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W
	R7608	NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
	R7609	NRVA6AD-223W	CMF RESISTOR 22kΩ,1/16W
	R7610	NRVA6AD-433W	CMF RESISTOR 43kΩ,1/16W
	R7611	NRVA6AD-821W	CMF RESISTOR 820Ω,1/16W
	R7612	NRVA6AD-223W	CMF RESISTOR 22kΩ,1/16W
	R7613	NRVA6AD-223W	CMF RESISTOR 22kΩ,1/16W
	R7614	NRVA6AD-223W	CMF RESISTOR 22kΩ,1/16W
	R7615	NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W
	R7616	NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R7617	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
	R7618	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
	R7630	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
	R7631	NRSA6AJ-335W	MG RESISTOR	3.3MΩ,1/16W
	C7501	NCZ1016-150X	CAPACITOR	15pF,2kV
	C7502	NCZ1016-150X	CAPACITOR	15pF,2kV
	C7503	NFV41HJ-183X	MPPS CAPACITOR	0.018µF,50V
	C7504	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C7505	NBE20JM-106X	T CAPACITOR	10µF,6.3V
	C7601	NCB30JK-105X	CAPACITOR	1µF,6.3V
	C7602	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C7603	NCB11CK-225X	CAPACITOR	2.2µF,16V
	C7604	NCB11CK-225X	CAPACITOR	2.2µF,16V
	C7605	NCB11CK-225X	CAPACITOR	2.2µF,16V
	C7606	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7607	NCB41CK-106X	CAPACITOR	10µF,16V
	C7608	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C7609	NCB31CK-104X	CAPACITOR	0.1µF,16V
	C7610	NCB11CK-225X	CAPACITOR	2.2µF,16V
	C7611	NCB11CK-225X	CAPACITOR	2.2µF,16V
	C7612	NCB11CK-225X	CAPACITOR	2.2µF,16V
	C7613	NBE20JM-225X	T CAPACITOR	2.2µF,6.3V
	C7614	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
	C7615	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C7616	NCB31HK-102X	CAPACITOR	0.001µF,50V
	C7617	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C7618	NCB10JK-106X	CAPACITOR	10µF,6.3V
	C7619	NCB10JK-106X	CAPACITOR	10µF,6.3V
	C7620	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C7621	NCB30JK-105X	CAPACITOR	1µF,6.3V
	C7622	NCB30JK-105X	CAPACITOR	1µF,6.3V
	C7623	NBE21AM-106X	T CAPACITOR	10µF,10V
	C7624	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C7626	NCBA1AK-104W	CAPACITOR	0.1µF,10V
	C7627	NCBA1AK-104W	CAPACITOR	0.1µF,10V
	C7628	NBP41EM-475X	T CAPACITOR	4.7µF,25V
	C7629	NBP21CM-335X	T CAPACITOR	3.3µF,16V
	C7630	NBP41EM-475X	T CAPACITOR	4.7µF,25V
	C7631	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C7632	NCB11CK-225X	CAPACITOR	2.2µF,16V
	C7633	NCB31EK-103X	CAPACITOR	0.01µF,25V
	C7634	NBE90JM-106X	T CAPACITOR	10µF,6.3V
	C7635	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C7637	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C7638	NRSA63J-103X	MG RESISTOR,D,E,F,G,H	10KΩ,1/16W
	C7641	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
	C7643	NBE90JM-106X	T CAPACITOR	10µF,6.3V
	C7644	NCB10JK-106X	CAPACITOR,B,C,D,E,F,G,H	10µF,6.3V
	L7501	NQLZ010-680X	COIL	68µH
	L7502	NQLZ010-220X	COIL	22µH
	L7601	NQL04DK-220X	COIL	22µH
	L7602	NQL04DK-220X	COIL	22µH
	L7603	NQL04DK-220X	COIL	22µH
	L7604	NQL04DK-220X	COIL	22µH
	L7605	NQL04DK-220X	COIL	22µH
	L7606	NQL04DK-220X	COIL	22µH
	L7607	NQL04DK-220X	COIL	22µH
	T7501	NQS0057-001X	SW TRANSF	
	CN761	QGF0301F1-39X	FPC CONNECTOR	
	CN762	QGF0508F1-24X	FPC CONNECTOR	
⚠	F7501	NMFZ007-R40X-K	FUSE	T0.4A,50V
	OT1	LY30029-0E3A	SPACER(A)	
	SD1	LY43572-001A	SHEET(SHIELD)	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
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JACK BOARD ASSEMBLY <05>

PW1	YB10378D1-01	JACK BOARD ASSY,F,G,H	
	YB10378D1-02	JACK BOARD ASSY,E	
	YB10378F1-01	JACK BOARD ASSY,A,B,C	
	YB10378F1-02	JACK BOARD ASSY,D	
IC1101	BA10358F-XE	IC	
D501	EMZ6.8N	ZENER DIODE,A,B,C,D	
D502	EMZ6.8N	ZENER DIODE,A,B,C,D	
D503	UDZS6.8B	ZENER DIODE	
D504	UDZS6.8B	ZENER DIODE	
D552	UDZS6.8B	ZENER DIODE	
D553	UDZS6.8B	ZENER DIODE	
D554	UDZS6.8B	ZENER DIODE	
D555	EMZ6.8N	ZENER DIODE	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R502	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R503	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R504	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R505	NRSA63J-331X	MG RESISTOR,A,B,C,D	330Ω,1/16W
R506	NRSA63J-331X	MG RESISTOR,A,B,C,D	330Ω,1/16W
R507	NRSA63J-0R0X	MG RESISTOR,E,F,G,H	0Ω,1/16W
R508	NRSA63J-0R0X	MG RESISTOR,E,F,G,H	0Ω,1/16W
R509	NRSA63J-0R0X	MG RESISTOR,E,F,G,H	0Ω,1/16W
R510	NRSA63J-680X	MG RESISTOR	68Ω,1/16W
R512	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R513	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R551	NRSA63J-680X	MG RESISTOR	68Ω,1/16W
R552	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R553	NRSA63J-221X	MG RESISTOR	220Ω,1/16W
R554	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R555	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R1101	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
R1102	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
R1103	NRSA63J-105X	MG RESISTOR	1MΩ,1/16W
R1104	NRSA63J-105X	MG RESISTOR	1MΩ,1/16W
R1105	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R1106	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
C501	NBZ0002-227X	T CAPACITOR	220μF,2.5V
C502	NCB31CK-104X	CAPACITOR	0.1μF,16V
C553	NCB31HK-103X	CAPACITOR	0.01μF,50V
C554	NCB31HK-103X	CAPACITOR	0.01μF,50V
C1101	NCB31CK-104X	CAPACITOR	0.1μF,16V
C1102	NCB31CK-223X	CAPACITOR	0.022μF,16V
C1103	NCB31CK-223X	CAPACITOR	0.022μF,16V
C1104	NCB30JK-105X	CAPACITOR	1μF,6.3V
C1105	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C1106	NBE20JM-106X	T CAPACITOR	10μF,6.3V
L551	NQR0251-004X	FERRITE BEAD	
L552	NQR0251-004X	FERRITE BEAD	
L553	NQR0251-004X	FERRITE BEAD	
L1101	NQL402M-100X	COIL	10μH
J501	NNZ0041-001X	D CONNECTOR	
J502	QNZ0497-001	USB CONNECTOR,E,F,G,H	
J503	QNS0152-001	2.5 JACK,A,B,C,D	
J504	QND0087-001	S JACK	
J505	LY32575-001A	BATT.TERNIMAL	
J551	QNA0027-001	DC JACK	
J552	QNS0078-001	3.5 JACK	
J553	PEMC1203	MINI JACK	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
CN501	QGB0405M1-60X	CONNECTOR	
CN502	QGA1001F1-03X	CONNECTOR	
CN503	QGA1001F1-02X	CONNECTOR	
CN504	QGA1001F1-04X	CONNECTOR	
OT1	LY43642-001A	SHEET(TERM.)	
OT2	LY30029-0Z8A	SPACER(A)	
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AUDIO BOARD ASSEMBLY <08>

PW	YB10377D-01	AUDIO BOARD ASSY,E,F,G,H	
	YB10377E-01	AUDIO BOARD ASSY,A,B,C,D	
IC2101	AK4550VT	IC	
IC2201	LA74206W	IC	
IC7001	TC7SH32FU	IC(DIGITAL)	
Q2401	2SA1774/QR/-X	TRANSISTOR	
Q2402	DTC144EE	DIGI TRANSISTOR	
	or RN1104	DIGI TRANSISTOR	
	or UN9213J	DIGI TRANSISTOR	
	or PDTC144EE	DIGI TRANSISTOR	
Q2403	2SC4617/QR/-X	TRANSISTOR	
	or 2SD2216J/QR/-X	TRANSISTOR	
Q2601	2SC4617/QR/-X	TRANSISTOR	
	or 2SD2216J/QR/-X	TRANSISTOR	
Q2602	2SC4617/QR/-X	TRANSISTOR	
	or 2SD2216J/QR/-X	TRANSISTOR	
Q7002	2SC4617/QR/-X	TRANSISTOR	
Q7005	2SA1774/QR/-X	TRANSISTOR	
R2001	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2002	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R2003	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2004	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R2101	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2102	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2103	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2201	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2202	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2205	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2206	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2207	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2208	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2209	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2210	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2211	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2212	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2214	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2215	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R2401	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2402	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2403	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R2404	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2407	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R2408	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R2601	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2602	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2604	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2605	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2606	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2609	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2610	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R2611	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2612	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2613	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2614	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2615	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R2616	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R2617	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2618	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2619	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2620	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2621	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2622	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2623	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2624	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7005	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R7007	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7011	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R7012	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
C2101	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2102	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2103	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
C2104	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
C2105	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C2106	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2107	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2108	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2201	NCB20JK-225X	CAPACITOR	2.2μF,6.3V
C2202	NCB20JK-225X	CAPACITOR	2.2μF,6.3V
C2209	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2210	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2211	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2212	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2213	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2214	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C2215	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2217	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2218	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2219	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2220	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2221	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
C2222	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2402	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2403	NBE41AM-106X	T CAPACITOR	10μF,10V
C2404	NBE40JM-476X	T CAPACITOR	47μF,6.3V
C2603	NCB31CK-223X	CAPACITOR	0.022μF,16V
C2604	NCB31CK-223X	CAPACITOR	0.022μF,16V
C2605	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2606	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2607	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C2608	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C2609	NCB31CK-273X	CAPACITOR	0.027μF,16V
C2610	NCB31CK-273X	CAPACITOR	0.027μF,16V
C2613	NCB31CK-333X	CAPACITOR	0.033μF,16V
C2614	NCB31CK-333X	CAPACITOR	0.033μF,16V
C2615	NCBA1HK-332W	CAPACITOR	0.0033μF,50V
C2616	NCBA1HK-332W	CAPACITOR	0.0033μF,50V
C2619	NCBA1HK-152W	CAPACITOR	0.0015μF,50V
C2620	NCBA1HK-152W	CAPACITOR	0.0015μF,50V
C2621	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2622	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2623	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2624	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2625	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2626	NCB31CK-104X	CAPACITOR	0.1μF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C2627	NBE20GM-336X	T CAPACITOR	33μF,4.0V
C7001	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C7002	NCB21CK-105X	CAPACITOR	1μF,16V
C7005	NDCA1EJ-221W	CAPACITOR	220pF,25V
C7006	NCBA1AK-104W	CAPACITOR	0.1μF,10V
L2101	NQL402M-100X	COIL	10μH
L2402	NQL315K-220X	COIL	22μH
L2601	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2602	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2603	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L7002	NQL04DK-100X	COIL	10μH
S2001	NSW0160-001X	TACT SWITCH,STOP	
S2002	NSW0160-001X	TACT SWITCH,REW/FOCUS	
S2003	NSW0160-001X	TACT SWITCH,FF/NIGHT	
S2004	NSW0160-001X	TACT SWITCH,PLAY/PAUSE/BACKLIGHT	
S2005	NSW0099-001X	SLIDE SWITCH,VIDEO/MEMORY,E,F,G,H	
S2006	NSW0177-001X	PUSH SWITCH,VF SW	
S2007	NSW0177-001X	PUSH SWITCH,OPEN/EJECT	
CN801	QGB0406M1-60X	CONNECTOR	
CN802	QGF0517F2-20X	FPC CONNECTOR	
CN803	QGA1001F1-04X	CONNECTOR	

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B/W VF BOARD ASSEMBLY <09>

PW	YB10382B-01	B/W VF BOARD ASSY	
IC7001	MCVVQ111FB	IC	
Q7001	PUMX1	PAIR TRANSISTOR	
D7001	NSCW100A0/ST/-X	LE DIODE	
D7002	MA111	DIODE	
R7001	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7002	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R7003	NRSA63J-183X	MG RESISTOR	18kΩ,1/16W
R7004	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R7006	NRVA63D-333X	CMF RESISTOR	33kΩ,1/16W
R7007	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
R7008	NRVA63D-473X	CMF RESISTOR	47kΩ,1/16W
R7009	NRSA63J-682X	MG RESISTOR	6.8kΩ,1/16W
R7010	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7011	NRSA63J-332X	MG RESISTOR	3.3kΩ,1/16W
R7012	NRSA63J-561X	MG RESISTOR	560Ω,1/16W
R7013	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
VR7001	NVP0016-223X	TRIM RESISTOR,GAIN	
C7001	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7002	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7003	NCB21AK-105X	CAPACITOR	1μF,10V
C7004	NCB31EK-223X	CAPACITOR	0.022μF,25V
C7005	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7006	NCF21CZ-105X	CAPACITOR	1μF,16V
C7007	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7008	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7009	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7010	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7011	NCB31HK-102X	CAPACITOR	0.001μF,50V
C7012	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7013	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7014	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7015	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7016	NCB11CK-475X	CAPACITOR	4.7μF,16V
C7017	NCB10JK-106X	CAPACITOR	10μF,6.3V
L7001	NQL38DK-100X	COIL	10μH
L7002	NQL38DK-100X	COIL	10μH

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		CN7001	QGF0517F2-20X	FPC CONNECTOR	
		CN7002	QGF0517F2-20X	FPC CONNECTOR	

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W/B BOARD ASSEMBLY <11>

	PW2	YB10378A2	W/B BOARD ASSY	
	Q1151	RPM-22PB	PHOTO TRANSISTOR	
	R1151	NRSA63J-302X	MG RESISTOR	3kΩ,1/16W
	C1151	NBE90JM-106X	T CAPACITOR	10μF,6.3V
	C1152	NCB21EK-683X-R	CAPACITOR	0.068μF,25V
	L1151	NQR0265-001X	FERRITE BEAD	
	WR1	WJM0267-001A	E-SI C WIRE C-F,W/B-JACK CN503	

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MONI SW BOARD ASSEMBLY <12>

	PW3	YB10378A3	MONI SW BOARD ASSY
	S1901	NSW0177-001X	PUSH SWITCH,MONITOR SW
	WR1	WJM0268-001A	E-SI C WIRE C-F,MONI SW-JACK CN502

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MENU BOARD ASSEMBLY <13>

	PW4	YB10378A4	MENU SW BOARD ASSY
	S501	NSW0078-001	ROTARY ENCODER,MENU/BRIGHT
	WR1	WJM0269-001A	E-SI C WIRE C-F,MENU-JACK CN504

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SD BOARD ASSEMBLY <06>,E,F,G,H

	PW	YB10379A	SD BOARD ASSY	
	IC6601	TC7W74FU	IC(DIGITAL)	
		or TC7WH74FU	IC(DIGITAL)	
	Q6601	DTC144EE	DIGI TRANSISTOR	
		or PDTC144EE	DIGI TRANSISTOR	
		or UN9213J	DIGI TRANSISTOR	
		or RN1104	DIGI TRANSISTOR	
	Q6602	UMS1N	PAIR TRANSISTOR	
	Q6611	2SA1774/RS/-X	TRANSISTOR	
	Q6612	UMS1N	PAIR TRANSISTOR	
	Q6613	2SC4617/RS/-X	TRANSISTOR	
	Q6614	RN1702	DIGI TRANSISTOR	
	Q6615	UMC4N	DIGI TRANSISTOR	
	D8501	EMZ6.8N	ZENER DIODE	
	D8502	UMZ6.8EN	ZENER DIODE	
	R6601	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
	R6603	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
	R6604	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
	R6605	NRSA6AJ-184W	MG RESISTOR	180kΩ,1/16W
	R6606	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R6611	NRSA6AJ-335W	MG RESISTOR	3.3MΩ,1/16W
	R6612	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
	R6613	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6614	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6615	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
	R6616	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
	R6617	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R8501	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R8502	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R8503	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R8504	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R8505	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R8506	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	C6601	NCBA1CK-103W	CAPACITOR	0.01μF,16V
	C6602	NCB21CK-105X	CAPACITOR	1μF,16V
	C6603	NCBA1HK-102W	CAPACITOR	0.001μF,50V
	C6604	NCBA1AK-473W	CAPACITOR	0.047μF,10V
	C6611	NCBA1CK-223W	CAPACITOR	0.022μF,16V
	C6612	NDCA1EJ-221W	CAPACITOR	220pF,25V
	C6613	NDCA1EJ-121W	CAPACITOR	120pF,25V
	C8502	NBE80JM-106X	T CAPACITOR	10μF,6.3V
	L6601	NQR0006-001X	FERRITE BEAD	
	L8501	NQR0129-002X	FERRITE BEAD	
	CN601	QGF0508F1-20X	FPC CONNECTOR	
	CN602	QGF0508F1-12X	FPC CONNECTOR	
	CN603	NNZ0062-001X	SD CARD CONNECTOR,F	
		NNZ0076-001X	SD CARD CONNECTOR,E,G,H	

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STROBE BOARD ASSEMBLY <07>,E,F,G,H

	PW	YB10380A-01	STROBE BOARD ASSY	
	IC6502	TC7SET08FU	IC(DIGITAL)	
	Q6501	2SB1462J/RS/-X	TRANSISTOR	
	Q6502	UN9211J	DIGI TRANSISTOR	
		or DTC114EE	DIGI TRANSISTOR	
⚠	Q6503	2SB1124/ST/-X	TRANSISTOR	
	Q6504	2SD1628/FG/-X	TRANSISTOR	
	Q6506	CT25ASJ-8-X	POW TRANSISTOR	
	D6501	F1F16	DIODE	
	D6502	DA121	DIODE	
	D6503	F1SN4	DIODE	
	D6504	CRG02	DIODE	
	R6501	NRSA63J-3R9X	MG RESISTOR	3.9Ω,1/16W
	R6502	NRSA63J-4R7X	MG RESISTOR	4.7Ω,1/16W
	R6504	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
	R6505	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R6506	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
	R6507	NRSA02J-106X	MG RESISTOR	10MΩ,1/10W
	R6508	NRVA63D-184X	CMF RESISTOR	180kΩ,1/16W
	R6514	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
	R6515	NRS181J-220X	MG RESISTOR	22Ω,1/8W
	R6516	NRSA02J-104X	MG RESISTOR	100kΩ,1/10W
	R6519	NRSA02J-106X	MG RESISTOR	10MΩ,1/10W
	R6520	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
	R6527	NRSA6AJ-391W	MG RESISTOR	390Ω,1/16W
	C6501	NBE41AM-336X	T CAPACITOR	33μF,10V
	C6502	NBE41AM-226X	T CAPACITOR	22μF,10V
	C6503	NCBA1CK-103W	CAPACITOR	0.01μF,16V
	C6506	NCZ1008-333X	CAPACITOR	0.033μF,250V
	C6507	NCZ1008-473X	CAPACITOR	0.047μF,250V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C6508	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C6509	NCZ1024-103X	CAPACITOR	0.01µF,250V
L6501	NQS0042-001X	SW TRANSF	
L6502	NQL302N-100X	COIL	10µH
L6503	NQL044K-470X	COIL	47µH
FW1	QAL0403-001	FPC,CN6501-SD CN602	
HD1	LY43587-001A	HOLDER(STB)ASSY	
WR1	WJV0060-001A	E-PRIMARY WIRE,OT1-W(WHITE)	
WR2	QUB490-03A2A2	WIRE,OT1-BK(BRACK)	
CN6501	QGF0513F2-12X	FPC CONNECTOR	
OT1	QEZ0450-326	E CAPACITOR	32µF,10V
OT2	LY30018-037A	SPECIAL SCREW	
OT3	LY41409-002A	SPACER(STROBE)	
OT4	LY30029-0Z4A	SPACER(A)	
OT5	LY32221-001A	STROBE ASSY	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION